



CMR College of Engineering & Technology

Kandlakoya (V), Medchal Road, Hyderabad - 501 401, Andhra Pradesh, INDIA

Phone No: 08418 - 200699. Fax No: 08418 - 200240.

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Course File

OOPS Through Java Lab

CSE Department

Subject	: OOPS Through Java Lab (A405507)
Academic Year	: 2023-2024
Department	: CSE
Branch & Year	: B.Tech CSE II Year I Sem



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Course Description

- **Course Objectives:**

1. To write programs using abstract classes.
2. To write programs for solving real world problems using java collection framework.
3. To write multithreaded programs.
4. To write GUI programs using swing controls in Java.
5. To introduce java compiler and eclipse platform.
6. To get hands on experience with java programming.

- **Course Outcomes:**

1. Demonstrate the technical skills to handle the Java program development tools such as Eclipse or NetBeans
2. Develop the Java programs for solving real world problems using the java collection framework.
3. Implement the Java programs using abstract classes, multithreaded programs to show technical skills.
4. Able to write Java programs for real world application using various OOPS concepts
5. Develop the GUI programs using Applet, swing controls in Java for user friendly interaction

Program Outcomes

CO-PO Mapping

	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012
C01	3				3							3
C02	3	1	3	1	2						1	2
C03	2	1	3	2								
C04	3	1	3	1	2				1		1	1
C05	3	1	3		2				1	1	1	1



CMR COLLEGE OF ENGINEERING & TECHNOLOGY

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KANDLAKOYA, MEDCHAL ROAD, HYDERABAD-501 401

ASSESSMENT OF PROGRAMME OUTCOMES & PROGRAMME SPECIFIC OUTCOMES

PROGRAMME		I B.TECH	CSE				
YEAR	II	SEM	III	Academic Year	2020-21	BATCH	2019-2023
Course Code	Course Name			Course Name		Object Oriented Programming through JAVA Lab	

ARTICULATION

S.No	COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
1	CO1	3	1	-	-	-	-		-	-	-	-	-	-	1
2	CO2	3	1	1	-	-	-		-	-	-	-	-	-	1
3	CO3	3	1	1	-	-	-		-	-	-	-	-	-	1
4	CO4	1	-	-	-	-	-		-	-	-	-	-	-	1
5	CO5	1	1	1	-	2	-		-	-	-	-	-	-	1
Average		3	1	1		2									1

FINAL ATTAINMENT (70% of External marks + 30% of Internal marks)

Description	CO1	CO2	CO3	CO4	CO5
External Examinations Attainment	3.00	3.00	3.00	3.00	3.00
Internal Examinations Attainment	3.00	3.00	3.00	3.00	3.00
70% of External Examinations Attainment	2.10	2.10	2.10	2.10	2.10
30% of Internal Examinations	0.90	0.90	0.90	0.90	0.90
Final Attainment (70% of Ext + 30% of Int)	3.00	3.00	3.00	3.00	3.00

ATTAINMENT OF POs & PSOs THROUGH THE COURSE OUTCOMES

COs	CO Attainment	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3.00	3	1	-	-	-	-		-	-	-	-	-	-	1
CO2	3.00	3	1	1	-	-	-		-	-	-	-	-	-	1
CO3	3.00	3	1	1	-	-	-		-	-	-	-	-	-	1
CO4	3.00	1	-	-	-	-	-		-	-	-	-	-	-	1
CO5	3.00	1	1	1	-	2	-		-	-	-	-	-	-	1
Attainment		3.00	3.00	3.00	-	3.00	-	-	-	-	-	-	-	-	3.00

(Course Coordinator)

(Programme Coordinator)

(A405507) OBJECT ORIENTED PROGRAMMING THROUGH JAVA LAB**B.Tech (CSE) II Year II Semester**

L	T	P	C
0	0	3	1.5

Note:

1. Use LINUX and MySQL for the Lab Experiments. Though not mandatory, encourage the use of the Eclipse platform.
2. The list suggests the minimum program set. Hence, the concerned staff is requested to add more problems to the list as needed.

List of Experiments:

1. Use Eclipse or Net bean platform and acquaint yourself with the various menus. Create a test project, add a test class, and run it. See how you can use auto suggestions, auto fill. Try code formatter and code refactoring like renaming variables, methods, and classes. Try debug step by step with a small program of about 10 to 15 lines which contains at least one if else condition and a for loop.
2. Write a Java program that implements a multi-thread application that has three threads. First thread generates a random integer every 1 second and if the value is even, the second thread computes the square of the number and prints. If the value is odd, the third thread will print the value of the cube of the number.
3. Write a Java program to create an abstract class named Shape that contains two integers and an empty method named print Area (). Provide three classes named Rectangle, Triangle, and Circle such that each one of the classes extends the class Shape. Each one of the classes contains only the method print Area () that prints the area of the given shape.
4. Write a Java program that correctly implements the producer – consumer problem using the concept of inter thread communication.
5. Write a Java program that works as a simple calculator. Use a grid layout to arrange buttons for the digits and for the +, -, *, % operations. Add a text field to display the result. Handle any possible exceptions like divided by zero.
6. A) Develop an applet in Java that displays a simple message.
B) Develop an applet in Java that receives an integer in one text field, and computes its factorial Value and returns it in another text field, when the button named “Compute” is clicked.
7. Write a Java program that creates a user interface to perform integer divisions. The user enters two numbers in the text fields, Num1 and Num2. The division of Num1 and Num2 is displayed in the Result field when the Divide button is clicked. If Num1 or Num2 were not an integer, the program would throw a Number Format Exception. If Num2 were Zero, the program would throw an Arithmetic Exception. Display the exception in a message dialog box.
8. Suppose that a table named Table.txt is stored in a text file. The first line in the file is the header, and the remaining lines correspond to rows in the table. The elements are separated by commas. Write a java program to display the table using Labels in Grid Layout.
9. Write a Java program that simulates a traffic light. The program lets the user select one of three lights: red, yellow, or green with radio buttons. On selecting a button, an appropriate message with “Stop” or “Ready” or “Go” should appear above the buttons in the selected color. Initially, there is no message shown.

10. Write a Java program that loads names and phone numbers from a text file where the data is organized as one line per record and each field in a record are separated by a tab (\t). It takes a name or phone number as input and prints the corresponding other value from the hash table (hint: use hash tables).
11. Write a Java program that handles all mouse events and shows the event name at the center of the window when a mouse event is fired (Use Adapter classes).
12. Write a Java program to list all the files in a directory including the files present in all its subdirectories.

REFERENCE BOOKS:

1. Java for Programmers, P. J. Deitel and H. M. Deitel, 10th Edition Pearson education.
2. Thinking in Java, Bruce Eckel, Pearson Education.
3. Java Programming, D. S. Malik and P. S. Nair, Cengage Learning.
4. Core Java, Volume 1, 9th edition, Cay S. Horstmann and G Cornell, Pearson.

Course Outcomes

1. Demonstrate the technical skills to handle the Java program development tools such as Eclipse or NetBeans
2. Develop the Java programs for solving real world problems using the java collection framework.
3. Implement the Java programs using abstract classes, multithreaded programs to show technical skills.
5. Able to write Java programs for real world application using various OOPS concepts
6. Develop the GUI programs using Applet, swing controls in Java for user friendly interaction

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3				3							3
CO2	3	1	3	1	2						1	2
CO3	2	1	3	2								
CO4	3	1	3	1	2				1		1	1
CO5	3	1	3		2				1	1	1	1

END



CMR COLLEGE OF ENGINEERING & TECHNOLOGY

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Kandlakoya, Medchal Road, Hyderabad - 501401

ACADEMIC CALENDAR

B. Tech II Year: Academic Year 2023-2024

Date: 11.08.2023

I Semester

S. No.	Description	Period	Duration
1	Commencement of Class Work	18.09.2023	-----
2	First Spell of Instructions (Including Dusara Holidays)*	18.09.2023 to 18.11.2023	9 Weeks
3	<i>First Mid Examinations</i>	<i>20.11.2023 to 25.11.2023</i>	1 Week
4	Submission of Mid-I Marks to Exam Branch	02.12.2023	
5	Parent-Teacher Meeting	09.12.2023	
6	Second Spell of Instructions (Including Pongal Holidays)	27.11.2023 to 20.01.2024	8 Weeks
7	<i>Second Mid Examinations</i>	<i>22.01.2024 to 27.01.2024</i>	1 Week
8	Submission of Mid-II Marks to Exam Branch	03.02.2024	
9	Preparations and Practical Examinations	29.01.2024 to 03.02.2024	1 Week
10	<i>End Semester & Supplementary Examinations</i>	<i>05.02.2024 to 17.02.2024</i>	2 Weeks


II Semester

S. No.	Description	Period	Duration
1	Commencement of Class Work	19.02.2024	-----
2	First Spell of Instructions	19.02.2024 to 13.04.2024	8 Weeks
3	<i>First Mid Examinations</i>	<i>15.04.2024 to 20.04.2024</i>	1 Week
4	Submission of Mid-I Marks to Exam Branch	27.04.2024	
5	Parent-Teacher Meeting	04.05.2024	
6	Second Spell of Instructions Continuation	22.04.2024 to 15.06.2024	8 Weeks
7	<i>Second Mid Examinations</i>	<i>17.06.2024 to 22.06.2024</i>	1 Week
8	Submission of Mid-II Marks to Exam Branch	29.06.2024	
9	Preparations and Practical examinations	24.06.2024 to 29.06.2024	1 Week
10	<i>End Semester & Supplementary Examinations</i>	<i>01.07.2024 to 13.07.2024</i>	2 Weeks
11	Commencement of Class Work for the next A.Y 2024-2025	15.07.2024	

*Dusara Vacation (Subjected to declaration by JNTUH & TS Govt.)

Copy submitted to Secretary: for kind information please

- Copy to :
1. Deans
 2. IQAC
 3. All HODs
 4. Administrative Officer
 5. Accounts Officer
 6. Web Portal In charge
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11/8/2023
PRINCIPAL
CMR College of Engineering & Technology
(UGC Autonomous)
Kandlakoya, Medchal Road, Hyderabad, T.S.

SESSION PLANNER

Academic Year : 2023-2024

Semester : III

Regulation : R-22

Course Code : A405507

Course : OOPS THROUGH JAVA LAB

Course Credits : 1.5

Faculty Name : M SHIVAKUMAR

PROGRAM NAME	No. of Periods	Cumulative No. of Periods	Delivery Method
1. Use Eclipse or Net bean platform and acquaint yourself with the various menus. Create a test project, add a test class, and run it. See how you can use auto suggestions, auto fill. Try code formatter and code refactoring like renaming variables, methods, and classes. Try debug step by step with a small program of about 10 to 15 lines which contains at least one if else condition and a for loop.	1	3	PPT & Eclipse IDE
2. Write a Java program that implements a multi-thread application that has three threads. First thread generates a random integer every 1 second and if the value is even, the second thread computes the square of the number and prints. If the value is odd, the third thread will print the value of the cube of the number.mechanisms. A way of viewing world	1	6	PPT & Eclipse IDE
3. Write a Java program to create an abstract class named Shape that contains two integers and an empty method named print Area (). Provide three classes named Rectangle, Triangle, and Circle suchthat each one of the classes extends the class Shape. Each one of the classes contains only the methodprint Area () that prints the area of the given shape.	1	9	PPT & Eclipse IDE

4. Write a Java program that correctly implements the producer – consumer problem using the concept of inter thread communication.	1	12	PPT & Eclipse IDE
5. Write a Java program that works as a simple calculator. Use a grid layout to arrange buttons for the digits and for the +, -,*, % operations. Add a text field to display the result. Handle any possible exceptions like divided by zero.program, concepts of classes arrays, operators	1	15	PPT & Eclipse IDE
6. A) Develop an applet in Java that displays a simple message. B) Develop an applet in Java that receives an integer in one text field, and computes its factorial Value and returns it in another text field, when the button named “Compute” is clicked.	1	18	PPT & Eclipse IDE
7. Write a Java program that creates a user interface to perform integer divisions. The user enters two numbers in the text fields, Num1 and Num2. The division of Num1 and Num 2 is displayed in the Result field when the Divide button is clicked. If Num1 or Num2 were not an integer, the program would throw a Number Format Exception. If Num2 were Zero, the program would throw an Arithmetic Exception. Display the exception in a message dialog box.	1	21	PPT & Eclipse IDE
8. Suppose that a table named Table.txt is stored in a text file. The first line in the file is the header, and the remaining lines correspond to rows in the table. The elements are separated by commas. Write a java program to display the table using Labels in Grid Layout.	1	24	PPT & Eclipse IDE
9. Write a Java program that simulates a traffic light. The program lets the user select one of three lights: red, yellow, or green with radio buttons. On selecting a button, an appropriate message with “Stop” or “Ready” or “Go” should appear above the buttons in the selected color. Initially, there is no message shown.	1	27	PPT & Eclipse IDE
10. Write a Java program that loads names and phone numbers from a text file where the data is organized as one line per record and each field in a record are separated by a tab (t). It takes a name or phone number as input and prints the corresponding other value from the hash table (hint: use hash tables).	1	30	PPT & Eclipse IDE
11. Write a Java program that handles all mouse events and shows the event name at the center of the window when a mouse event is fired (Use Adapter classes)	1	33	PPT & Eclipse IDE

12. Write a Java program to list all the files in a directory including the files present in all its subdirectories	1	36	PPT & Eclipse IDE
<p>13. Additional Programs</p> <p>1. Write a java program to count characters and words using awt, swing components</p> <p>2. Write a java program for using applet</p> <p>3. Write a java program all 3 digit armstrong number</p> <p>4. Write a java program using garbage collection using different methods</p> <p>5. Write a java program to execute a generic class with different data types and run it</p>	1	39	PPT & Eclipse IDE



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

B.TECH II YEAR III SEMESTER

SEC-A

A.Y. 2023-24

Sl. No.	Roll Number	Student Name
1	21H51A05H4	PULIGILLA SAI SIDDU (Re-Admission in III Sem A.Y. 2023-2024) CSE A
2	22H51A0501	ADMALA SAI CHARAN REDDY
3	22H51A0502	ARJUN KOLLIPARA
4	22H51A0503	BADDAM CHARITH REDDY
5	22H51A0504	BANTU HARSHITH
6	22H51A0505	BASUTHKAR AKASH
7	22H51A0506	BELLARY SRIVAISHNAVI
8	22H51A0507	SALKAPURAM SRINIVAS REDDY
9	22H51A0508	BOGA YASHASWI KUMAR
10	22H51A0509	BONTHALA SAMEEKSHA
11	22H51A0510	BURRA VISHNU VISHAL
12	22H51A0511	CHIPPA SAHITH
13	22H51A0512	DARAM SRIHITHA
14	22H51A0513	DEVANDLA VASUNDARA
15	22H51A0514	DHANAVATH VARUN
16	22H51A0515	DHARAVATH AJAY
17	22H51A0516	DIVYESH VALERIAN MORRIS
18	22H51A0517	DOGIPARTHI VENKAT
19	22H51A0518	DUNNA PAPAGARI MURALI
20	22H51A0519	EEDHA RAHUL
21	22H51A0520	G KEERTHI REDDY
22	22H51A0521	GADDAM KEERTHIKA
23	22H51A0522	GAJE AJAY
24	22H51A0523	GANGADI VARUN REDDY
25	22H51A0524	GANJALA AKASH
26	22H51A0525	GARGULA KRISHNAPRIYA
27	22H51A0526	GUJJULA SAI VARDHAN
28	22H51A0527	GUMMADI SRAVAN SAI
29	22H51A0528	INDUPALLI SHINY PAUL
30	22H51A0529	INDUPALLI SHINY PAUL
31	22H51A0530	INDUPALLI SHINY PAUL
32	22H51A0531	KARTIK GUPTA
33	22H51A0532	KASULABADHA SAI MADHURI
34	22H51A0533	KULKARNI SATHWIK
35	22H51A0534	LANKA DURGA SRAVANI
36	22H51A0535	LENKALAPALLI SHRUTHIKA
37	22H51A0536	MACHARLA MALESHWARI
38	22H51A0537	MADINI KIRAN
39	22H51A0538	MANUDODDI GOPIKA VAISHNAVI
40	22H51A0539	MARRIPELLI ARAVIND
41	22H51A0540	MEESA YOGESH
42	22H51A0541	MOHAMMAD INAYATH
43	22H51A0542	MOHAMMED JAFAR SADIQ
44	22H51A0543	NARRA SIDDARTHA REDDY

45	22H51A0544	P N V SUMANASREE
46	22H51A0546	PANTA CHANDHANA
47	22H51A0547	PAPANKA SANJANA
48	22H51A0548	PATI CHAITANYA
49	22H51A0549	POLEBOINA BINDU
50	22H51A0550	PULAMOLU VENKATA SAI KRISHNA
51	22H51A0551	RAMSHETTY SRI DIVYA
52	22H51A0552	RAYAPUDI VEENA MADHURI
53	22H51A0553	RHEA REDDY THANUGUNDLA
54	22H51A0554	SAMBARI KOUSHIK KUMAR
55	22H51A0555	ARMISTA RATH
56	22H51A0556	SIRAMMAGARI PHANI KUMAR REDDY
57	22H51A0557	SOLIGI SHIVENDRA
58	22H51A0558	SOUMYA BANERJEE
59	22H51A0559	SREEPATHI SAI KRISHNA
60	22H51A0560	THALLA SRINITHA
61	22H51A0561	THATIPARTHI SHASHI VARDHAN REDDY
62	22H51A0562	VADNALA SHREYANI
63	22H51A0563	VANJARAPU KUMAR GAURAV
64	22H51A0564	VELETI SRINIKETH
65	22H51A0565	VELPURI SANTHOSHI KRISHNA SREYA
66	23H55A0501	AHTISHAM UL REYAZ
67	23H51A0502	ALASANI SNEHITHA
68	23H55A0503	ANUGANDULA GANGA VEDASYA
69	23H51A0504	ASHISH DESHPANDE
70	23H55A0505	B WILSON
71	23H51A0506	BANAPURAM VISHNU VARDHAN REDDY
72	23H55A0507	BETHI ABHINAY
73	23H55A0522	MUJEEB LATEEF SOFI

II YEAR A/C INCHARGE

HOD/CSE
Dr.S.Siva Skandha



CMR COLLEGE OF ENGINEERING & TECHNOLOGY

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KANDLAKOYA, HYDERABAD -501 401

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

B.TECH II YEAR III SEMESTER

SEC-B

A.Y. 2023-24

Sl. No.	Roll Number	Student Name
1	22H51A0566	AAKANSHA SHARMA
2	22H51A0567	ACHANA CHANDANA
3	22H51A0568	ADEPU VAATSAVA SRI BHARGAV
4	22H51A0569	AILNENI HARIVARSH RAO
5	22H51A0570	ALETI KOWSHIK VARDHAN REDDY
6	22H51A0571	ANIMALLA SONY
7	22H51A0572	BAMINI PALLAVI
8	22H51A0573	BANDAM VARSHINI
9	22H51A0574	BHATTIPROLU SAI MANIKANTA KARTHIK
10	22H51A0575	CHAITANYA SAHU
11	22H51A0576	CHATLA NAVACHAITHANYA
12	22H51A0577	DAKURI SAKETH REDDY
13	22H51A0578	DONTHIGARI VINAY
14	22H51A0579	GAJAM RISHIKA
15	22H51A0580	GAJAWADA ADARS
16	22H51A0581	GANDHAMALLA ABHISHEK
17	22H51A0582	GANJI SRIKAR
18	22H51A0583	GOLLA SURYA KIRAN
19	22H51A0584	GOPU ARCHANA
20	22H51A0585	GOURANI SWATHI
21	22H51A0586	GUDIPALLY MANEENDRA
22	22H51A0587	GUDURU BHAVANA REDDY
23	22H51A0588	GUNDA SOWMYA
24	22H51A0589	HEMANTH SAI P
25	22H51A0590	MOKSHITHA
26	22H51A0591	JAKKANI SRI VARDHAN
27	22H51A0592	KALLEM RUSHI VARUN REDDY
28	22H51A0593	KANABOINA VIGNESH
29	22H51A0594	KASHYAP UNNATHI SINGH
30	22H51A0595	KONGARA RAHUL
31	22H51A0596	KUNCHALA KOTESHWAR
32	22H51A0597	PULULA DEGA ANAGHA SRI MEGHANA
33	22H51A0598	MADIREDDY MANI SPARSHA

34	22H51A0599	MADISHETTY GAYATHRI
35	22H51A05A0	MANCHARLA MANEESH REDDY
36	22H51A05A1	MANDA KAVYA
37	22H51A05A2	MANDADI SATHVIKA REDDY
38	22H51A05A3	MANGALI SRIJA
39	22H51A05A4	MANOJ MANNAM
40	22H51A05A5	MASINI PRABHAS
41	22H51A05A6	MAVURI SRI VARSHINI
42	22H51A05A7	MD JAHANGEER
43	22H51A05A8	MOHAMMED MUSTAFA
44	22H51A05A9	MUKKAPATI NAGA VENKATA LAVANYA
45	22H51A05B0	NAMASANI SUJAL
46	22H51A05B1	NANNAGARAM CHAREESH
47	22H51A05B2	NARMETA VIBHAS
48	22H51A05B3	NIKHIL BHATIA
49	22H51A05B4	PAMULA SAI VENKAT
50	22H51A05B5	PATLOLLA NANDINI REDDY
51	22H51A05B6	PONNADA SRIKANTH CSE B
52	22H51A05B7	PULULA DEGA ANAGHA SRI MEGHANA
53	22H51A05B8	PUPPALA VIVASWANTH
54	22H51A05B9	SANGEPU MANASWINI
55	22H51A05C0	SHILPA LINGAYAPALLY
56	22H51A05C1	SUMAYA ZABEEN
57	22H51A05C2	SUMEHRA
58	22H51A05C3	THALARI PAVAN
59	22H51A05C4	VADDE VANSHIKA
60	22H51A05C5	VANTHADUPULA VISHNU VARDHAN
61	22H51A05C6	VATTE SAI VISHWA TEJA
62	22H51A05C7	VEMULA SAMEERA
63	22H51A05C8	VISHAL NISHAD
64	22H51A05C9	SUNANDAN SINGH SAMBAYL
65	22H51A05D0	VANSH BHAGAT
66	23H55A0508	BOINA SRIKAR
67	23H55A0509	CHERUKU SRI DEEPTHI
68	23H55A0510	DEKULLA MAMADEVI
69	23H55A0511	DWASARI MEGHANA
70	23H55A0512	G AJAY KUMAR
71	23H55A0513	GANJA DEEPIKA
72	23H55A0514	GARNAPALLY NIKHITHA

II YEAR A/C INCHARGE

HOD-CSE



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

B.TECH II YEAR III SEMESTER

SEC-C

A.Y. 2023-24

Sl. No.	Roll Number	Student Name
1	22H51A05D1	ADAPA DEVI SHAMITHA
2	22H51A05D2	ADDU AJAY
3	22H51A05D3	AKKA ANIRUDH REDDY
4	22H51A05D4	AKULA SHANMUKHI
5	22H51A05D5	AMBATI VENKATESHWAR REDDY
6	22H51A05D6	ARIGELA SRUHAAS KARTHI
7	22H51A05D7	BAKKI THARUN RAM PATEL
8	22H51A05D8	BALLEM ROJA PUSHPA
9	22H51A05D9	BANOTH GOUTHAMI
10	22H51A05E0	BANOTHU SHIRISHA
11	22H51A05E1	BODAKUNTA LAXMAN
12	22H51A05E2	BUDDPOLLA ANJANEYULU
13	22H51A05E3	BUKYA GANESH
14	22H51A05E4	CHEPYALA SRIKAR REDDY
15	22H51A05E5	CHILKAPALLY KAVYA SREE
16	22H51A05E6	CHILLA PRABHAS
17	22H51A05E7	CHIMALA MAHESH REDDY
18	22H51A05E8	CHINNAM RAJ KUMAR
19	22H51A05E9	CHINTAPALLY KAVERI REDDY
20	22H51A05F0	DEVIREDDY SESHU REDDY CSE C
21	22H51A05F1	ETTEDI VAISHNAVI
22	22H51A05F2	GANAPANENI SAI TEJA
23	22H51A05F3	GUDLA VIGNAN
24	22H51A05F4	GUNDLAPALLI SAIGANESH CSE C
25	22H51A05F5	K PRABHAVATHI
26	22H51A05F6	KAKARLA SRAVANI
27	22H51A05F7	KANAGALA UNNATHI
28	22H51A05F8	KARNATI DEEKSHITHA
29	22H51A05F9	KASULA SAI KRISHNA REDDY
30	22H51A05G0	KAVALI ANAND KUMAR
31	22H51A05G1	KOTAPATI AKHIL
32	22H51A05G2	KUDIYALA VISHALINI
33	22H51A05G3	KUMMARI SHARANYA
34	22H51A05G4	LUKHANE LOKESH
35	22H51A05G6	MADANI MANOJ KUMAR
36	22H51A05G7	MAMINDLA PRAVEEN RAJ
37	22H51A05G8	MANDADI SRIJA
38	22H51A05G9	MANDALA MADHULIKA
39	22H51A05H0	MASANAGARI SHRIYA
40	22H51A05H1	MEER SAMEER
41	22H51A05H2	MIDDE MANUPRIYA
42	22H51A05H3	NANDESHWAR REDDY CHALLA
43	22H51A05H4	PALLE SANJANA REDDY
44	22H51A05H5	PASUPULA SAI TEJASHWINI
45	22H51A05H6	PERUGU SAI KUMAR
46	22H51A05H7	PISHKA DEEPAK
47	22H51A05H9	RAMIREDDY TEJASREE
48	22H51A05J0	RAYALA VIJAY
49	22H51A05J1	SANJANA S PATIL
50	22H51A05J2	SAPELLY SAI VIVEK CSE C
51	22H51A05J3	SHAIK MOHAMMAD MAHEEN
52	22H51A05J4	SHAIK MOHAMMED ABBAS
53	22H51A05J5	SYED YASIR HUSSAIN
54	22H51A05J6	T VINAYKUMAR

55	22H51A05J7	TALARI ADITHYA
56	22H51A05J8	THAKKALAPALLY SRAVYA
57	22H51A05J9	THOTA LATHIKA
58	22H51A05K0	TONDA NIHARIKA
59	22H51A05K1	VANGARI SHIVA SAI
60	22H51A05K2	VITTAPUR DINESH REDDY
61	22H51A05K3	VODDAM VIGNESH
62	22H51A05K4	YADAVALLI BHANU
63	23H55A0515	GATLA MANIKANTA
64	23H55A0516	GODUGU AISHWARYA
65	23H55A0517	GONE KAVYANJALI
66	23H55A0518	KATHARAMALLA SUSHANTH
67	23H55A0519	KSHERASAGAR HARSHITHA
68	23H55A0520	MADASI SAI PRASANNA
69	23H55A0521	MAMIDI SHESHANK REDDY
70	23H55A0523	ODICHERLA SRAVAN KUMAR
71	23H55A0524	PEDDAKOLIMI SAI PAVAN

II YEAR A/C INCHARGE

HOD/CSE
Dr.S.Siva Skandha



CMR COLLEGE OF ENGINEERING & TECHNOLOGY

(UGC AUTONOMOUS)

KANDLAKOYA, HYDERABAD -501 401

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

B.TECH II YEAR III SEMESTER

SEC-D

A.Y. 2023-2024

Sl. No.	Roll Number	Student Name
1	22H51A05K5	AAVULA HIMASRIKAR
2	22H51A05K6	ARYAN SANJAY BOLLAM
3	22H51A05K7	ASOKAN ARVIND KUMAR
4	22H51A05K8	B PAVITHRA
5	22H51A05K9	B. DIVYA
6	22H51A05M0	BANDARI NIKSHITHA
7	22H51A05M1	BELLAMKONDA HARSHINI
8	22H51A05M2	BHUKYA ANJALI
9	22H51A05M3	BOLLEPELLI BHARGAV REDDY
10	22H51A05M4	BUGGINENI BHARGAV
11	22H51A05M5	CHEVVAKULA SRISIR
12	22H51A05M6	CHITLA SATHWIK
13	22H51A05M7	CHITNENI SUSHMITHA
14	22H51A05M8	DANDEM SAI CHARAN
15	22H51A05M9	DARSHANALA VISHNUTEJA
16	22H51A05N0	DUDALA SHIVA KIRAN GOUD
17	22H51A05N1	GADE ASLESHA
18	22H51A05N2	GOPU ROHITH
19	22H51A05N3	GURRAM RAKSHITHA
20	22H51A05N4	K VENKATESH
21	22H51A05N5	KADIRA JAYANTH REDDY
22	22H51A05N6	KALIKAYI NANDINI
23	22H51A05N7	KAPPALA SAI SAMPATH
24	22H51A05N8	KARNATI JASVANTH
25	22H51A05N9	KARRI BHARATH
26	22H51A05P0	KETHAVATH SARITHA
27	22H51A05P1	KOLA ABHINAV
28	22H51A05P2	KOLLAPU JASMINE
29	22H51A05P3	KOLLKURI SAI AMBIKA
30	22H51A05P4	KOTA BHARATH NAIDU
31	22H51A05P5	KUCHUKA KANTH SAI KRISHNA CHAITANYA
32	22H51A05P6	KUNCHAM POOJA
33	22H51A05P7	LANKA SIVA SUBRAMANIAN SREENADH
34	22H51A05P8	M SHIVANI
35	22H51A05P9	MADARAPU ROHITH SAI
36	22H51A05Q0	MANNE SATHWIK
37	22H51A05Q1	MARJU SANJANA
38	22H51A05Q2	MEDURI SRI VAISHNAVI
39	22H51A05Q3	MOHAMMED ADNAN PASHA
40	22H51A05Q4	MOHAMMED MUHIB AHMED MUJEEB
41	22H51A05Q5	MONISH DESHPANDE
42	22H51A05Q6	MUDELLA HARSHINI SAI
43	22H51A05Q7	NAGULURI AVINASH GOUD

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44	22H51A05Q8	NETHALA LILY GRACE
45	22H51A05Q9	PAMPARI GRISHM KUMAR
46	22H51A05R0	PANDIRI PRANAVI
47	22H51A05R1	PATLOORI SRIKANTH
48	22H51A05R2	PUTTI RAGHU
49	22H51A05R3	RASMOLAWAR SAI KUMAR
50	22H51A05R4	S K SOHAIL PASHA
51	22H51A05R5	SAMPETA HARSHITH
52	22H51A05R6	SANABOINA MANI BANU SAI TEJA
53	22H51A05R7	T SHASHANK REDDY
54	22H51A05R8	TAGURAM SURYA
55	22H51A05R9	TANGADPELLIWAR VIRENDRA
56	22H51A05T0	THATHIREDDY BHARGAVI
57	22H51A05T1	THEEPIREDDY SATHVIKA REDDY
58	22H51A05T2	TIRUNAGARI MALAVIKA
59	22H51A05T3	VANGA YASHWANTH SAI RAJ REDDY
60	22H51A05T4	VARANASI SHASHI SRI
61	22H51A05T5	VELMA AKSHAYA
62	22H51A05T6	VEMULA PRAVALIKA
63	22H51A05T7	VOORADALA VENKATA RAMANA
64	22H51A05T8	YERRAMADA CHERISHMA
65	22H51A05T9	BHEEMANATHI HARSHAVARDHAN
66	23H55A0525	PERKA SAHITH
67	23H55A0526	POLEPAKA AKHILESH
68	23H55A0527	PUNNA ABHISHEK
69	23H55A0528	SHEELAM ANVITHA
70	23H55A0529	SURAJ KUMAR SINGH
71	23H55A0530	VARAYOGULA VISHAL KUMAR

II YEAR A/C INCHARGE**HOD/CSE
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Kandlakota(V), Meekhal Road, Hyderabad -501 401

Name of the Course: IT/I
Section: A

Course Code: A105507
Branch: CSE

CONTINUOUS INTERNAL EVALUATION - FINAL MARKS

S.No.	Name of the Student	Roll number	Day to Day Evaluation	Laboratory Project	Assessment	Laboratory Internal Exam	Total Internal Marks
			10	10	10	10	40
1.	Sai Siddu	22H51A0514	6	7	5	5	23
2.	A. Saicharan Reddy	22H51A0501	7	7	7	8	29
3.	Arjun Kollipam	22H51A0502	7	9	7	8	31
4.	B. Charith Reddy	22H51A0503	7	8	10	7	32
5.	B. Harshith	22H51A0504	8	8	8	7	31
6.	B. Akash	22H51A0505	8	8	8	7	31
7.	B. SriValshnaru	22H51A0506	8	8	9	7	32
8.	S. Srinivas Reddy	22H51A0507	8	8	7	8	31
9.	B. Yashaswi Kumar	22H51A0508	8	8	9	8	33
10.	B. Sameeksha	22H51A0509	8	8	8	8	32
11.	B. Vishnu Vishal	22H51A0510	8	8	8	8	32
12.	Ch. Sahith	22H51A0511	8	8	8	8	32
13.	D. Srihitha	22H51A0512	8	8	8	8	32
14.	D. Vasunala	22H51A0513	7	8	7	8	30
15.	D. Varun	22H51A0514	8	8	8	8	32
16.	D. Ajay	22H51A0515	8	8	8	8	32
17.	D	22H51A0516	8	8	8	7	31
18.	D. Venkat	22H51A0517	8	8	7	7	30
19.	D.P. Murali	22H51A0518	8	8	7	7	30
20.	G. E. Rahul	22H51A0519	7	7	7	7	28

Faculty

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CMR COLLEGE OF ENGINEERING & TECHNOLOGY

UGC Autonomous, Accredited by NAAC with A+ grade
Kandlakoya(V), Medchal Road, Hyderabad -501 401

Name of the Course: II/I
Section: A

Course Code: A405507
Branch: CSE

CONTINUOUS INTERNAL EVALUATION - FINAL MARKS

S.No.	Name of the Student	Roll number	Day to Day Evaluation	Laboratory Project	Assessment	Laboratory Internal Exam	Total Internal Marks
			10	10	10	10	40
21	G. Keerthi Reddy	22HS1A0520	8	8	10	10	36
22	G. Keerthika Reddy	22HS1A0521	8	9	8	8	33
23	G. Ajay	22HS1A0522	8	8	8	8	32
24	G. Varun Reddy	22HS1A0523	8	8	8	8	32
25	G. Akash	22HS1A0524	8	8	8	8	32
26	G. Krishna Priya	22HS1A0525	8	8	8	8	32
27	G. Sai Varidham	22HS1A0526	8	8	9	8	32
28	G. Sravan Sai	22HS1A0527	9	8	10	9	36
29	G. Shiny Paul	22HS1A0528	8	8	8	8	32
30	K. Rakshitba	22HS1A0529	8	9	10	9	36
31	K. Navya	22HS1A0530	8	8	8	8	32
32	Kartik Gupta	22HS1A0531	8	8	8	8	32
33		22HS1A0532	8	8	8	8	32
34	K. Sathwik	22HS1A0533	8	8	8	8	32

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Kandlakoya(VL), Medchal Road, Hyderabad -501 401

Name of the Course: B.Tech - ITA
Section: A

Course Code: AE05501
Branch: CSE

CONTINUOUS INTERNAL EVALUATION - FINAL MARKS

S.No.	Name of the Student	Roll number	Day to Day Evaluation	Laboratory Project	Assessment	Laboratory Internal Exam	Total Internal Marks
			10	10	10	10	40
01.	L. Divya Srawani	22H5TA0531	8	9	8	8	33
02.	L. Sravitha	22H5TA0535	8	9	8	8	33
03.	M. Malashwari	22H5TA0536	8	9	8	8	33
04.	M. K. Rao	22H5TA0537	8	9	8	8	33
05.	M. Gopita Valsaravi	22H5TA0538	8	9	8	8	33
06.	M. Aravind	22H5TA0539	8	8	8	8	32
07.	M. Yogesh	22H5TA0540	8	8	8	8	32
08.	Mohammad Trayath	22H5TA0541	8	8	8	8	32
09.	M. Jagan sridha	22H5TA0542	8	10	8	8	34
10.	N. Siddarth	22H5TA0543	8	10	8	8	34
11.	P.N.V. Sumanalaxi	22H5TA0544	8	8	8	8	32
12.	P. Chandhana	22H5TA0546	8	7	6	7	28
13.	P. Sanjana	22H5TA0547	8	8	8	8	32
14.	P. Chaitanya	22H5TA0548	8	9	8	8	33
15.	P. Bindu	22H5TA0549	8	8	8	8	32
16.	P. Venkatesh Krishna	22H5TA0550	8	8	8	8	32
17.	R. Sri Divya	22H5TA0551	8	8	8	8	32
18.	R. Veena Madhuri	22H5TA0552	8	8	8	8	32
19.	R. Rhea Pranugunda	22H5TA0553	8	8	8	8	32
20.	S. Kaushik Kumar	22H5TA0554	8	10	8	8	34

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Kandlakoya(V), Medchal Road, Hyderabad -501 401

Name of the Course: B.Tech - II/II
Section: A

Course Code: AA05501
Branch: CSE

CONTINUOUS INTERNAL EVALUATION - FINAL MARKS

S.No.	Name of the Student	Roll number	Day to Day Evaluation	Laboratory Project	Assessment	Laboratory Internal Exams	Total Internal Marks
			10	10	10	10	40
21	Santosh Patil	22HSTA0555	7	9	8	7	29
22	S. Phani Kumar	22HSTA0556	6	8	8	8	30
23	S. Shrivendha	22HSTA0557	8	8	8	7	31
24	Sowmya Banerjee	22HSTA0558	8	8	8	7	31
25	S. Kalirafshna Sree	22HSTA0559	9	8	8	10	36
26	T. Saritha	22HSTA0560	8	8	8	8	32
27	T. Shaik Vardhan	22HSTA0561	8	8	8	8	32
28	V. Shreyani	22HSTA0562	8	8	8	8	32
29	V. Kumar Guptav	22HSTA0563	6	8	8	6	28
30	V. Sarfeth Sharma	22HSTA0564	8	8	8	8	32
31	V. Sreya	22HSTA0565	8	8	7	8	31
32	A. Ul. Reyaz	23HSTA0501	8	9	9	8	34
32	A. Snehta	23HSTA0502	7	8	8	8	31
33	A. G. Vedang	23HSTA0503	8	8	7	8	31
34	Ashesh	23HSTA0509	8	8	8	6	30
35	B. Wilson	23HSTA0505	8	8	8	6	30
36	B. V. Ghu Vardhan	23HSTA0506	8	8	9	7	32
37	B. Abhinav	23HSTA0507	8	9	8	8	33
38	Mujeeb Latif Sofi	23HSTA0522	8	8	8	8	32


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CMR COLLEGE OF ENGINEERING & TECHNOLOGY

UGC Autonomous, Accredited by AICTE with A+ grade
 Kambathur VV, Madhav Road, Hyderabad - 501 501

Name of the Course: OCF 8 through Java
 Section: B

Course Code: ADG9501
 Subject: CSE

EMPLOYEE'S INTERNAL EVALUATION - TERM MARKS

Sl. No.	Name of the Student	Roll number	Class Test	Laboratory	Assignment	Laboratory	Total
			Mark	Mark			
1	Aakansha Sharma	22HS1A0501	8	✓ 8	7	8	31
2	A Chandana	22HS1A0502	8	✓ 5	7	8	28
3	Bhargav Adepu	22HS1A0503	8	✓ 6	7	7	28
4	A Harivansh Reddy	22HS1A0504	8	✓ 8	7	8	31
5	A Kowshik Reddy	22HS1A0505	8	✓ 9	7	8	32
6	A. Jony	22HS1A0506	8	✓ 8	7	8	31
7	B Pallavi	22HS1A0507	8	✓ 9	8	8	33
8	B Varshini	22HS1A0508	8	✓ 9	8	8	33
9	B Satmani Roshan Kumar	22HS1A0509	8	✓ 9	8	8	33
10	Chaitanya Sahu	22HS1A0510	8	✓ 8	8	8	32
11	Chinmayachaitanya	22HS1A0511	8	✓ 8	7	8	31
12	D. Saketh Reddy	22HS1A0512	8	✓ 8	7	8	31
13	D. Vinay	22HS1A0513	8	✓ 8	7	8	31
14	G. Rishika	22HS1A0514	8	✓ 8	7	8	31
15	G. Adarsh	22HS1A0515	8	✓ 8	7	8	31
16	G. Abhilekh	22HS1A0516	0	0	0	0	0
17	G. Srihar	22HS1A0517	8	✓ 9	7	8	32
18	G. Surya Kiran	22HS1A0518	8	✓ 8	7	8	31
19	G. Archana	22HS1A0519	8	✓ 8	7	8	31
20	G. Swathi	22HS1A0520	8	✓ 6	6	8	28

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CMR COLLEGE OF ENGINEERING & TECHNOLOGY

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Kandlakoya(V), Medchal Road, Hyderabad - 501 401

Name of the Course: B.Tech - II/E
Section: 6

Course Code: AA05501
Branch: CSE

CONTINUOUS INTERNAL EVALUATION - FINAL MARKS

S.No.	Name of the Student	Roll number	Day to Day Evaluation	Laboratory Project	Assessment	Laboratory Internal Exam	Total Internal Marks
			10	10	10	10	40
21	Gi Maneendra	22H51A0586	8	✓8	8	8	32
22	Gi Bhavana Reddy	22H51A0587	8	✓9	8	9	34
23	Gi Swapna	20H51A0588	8	✓8	7	8	31
24	P. Hemarthai	22H51A0589	8	✓7	7	8	30
25	J. Mokshitha Naidu	22H51A0590	8	✓9	8	9	34
26	J. Srivardhan	22H51A0591	8	✓9	8	9	34
27	K. Rushilwan	22H51A0592	8	✓8	8	8	32
28	K. Vignesh	22H51A0593	9	✓10	9	9	37
29	K. Unnathi Singh	22H51A0594	8	✓8	8	8	32
30	K. Rajul	22H51A0595	8	✓8	7	8	31
31	K. Koteswara	22H51A0596	8	✓8	6	8	30
32	M.H.Fra	20H51A0597	8	✓7	6	8	29
33	M. Mani Sparsha	22H51A0598	8	✓8	8	8	32
34	M. Gayathri	22H51A0599	8	✓8	8	8	32
35	M. Maneeesh Reddy	22H51A0600	8	✓9	8	9	34
36	M. Kavya	22H51A0601	8	✓8	8	8	32

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CMR COLLEGE OF ENGINEERING & TECHNOLOGY

UGC Autonomous, Accredited by NAAC with A+ grade

Kandlakoya(V), Medchal Road, Hyderabad -501 401

Name of the Course: B.Tech COPS Lab
Section: C

Course Code: A405507
Branch: CSE

CONTINUOUS INTERNAL EVALUATION - FINAL MARKS

S.No.	Name of the Student	Roll number	Day to Day Evaluation	Laboratory Project	Assessment	Laboratory Internal Exam	Total Internal Marks
			10	10	10	10	40
01.	M. PRAVEEN RAJ	22H51A0567	7.9	8	7	5	28
02.	M. SRIJA	5618	8.8	8	7	8	32
03.	M. MADHULIKA	5619	8.5	8	7	7	30
04.	M. SHRIYA	5110	8.1	8	7	6	29
05.	M. SAMEER	5111	6.75	9	7	8	30
06.	M. MANUPRIYA	5112	6.4	9	7	8	30
07.	N. REDDY CHALLA	5113	7.9	9	7	8	32
08.	P. SANJANA REDDY	5114	7.0	9	7	6	29
09.	P. SAI TEJASHWINI	5115	8.25	9	7	9	33
10.	P. SAI KUMAR	5116	7.5	9	7	5	30
11.	P. DEEPAK	5117	7.6	9	7	5	30
12.	R. TEJASREE	5118	9.1	9	7	10	34
13.	R. VIJAY	5119	6.08	8	6	5	24
14.	S.S. PATIL	5120	8.0	8	6	7	29
15.	S. SAI VIVEK	5121	6.8	8	6	8	29
16.	S.M. MAHEEN	5122	7.0	8	6	6	27
17.	S.M. ABBAS	5123	6.8	9	8	9	33
18.	S.Y. HUSSAIN	5124	6.25	9	8	9	32
19.	T. VINAY KUMAR	5125	7.6	9	8	7	32
20.	T. ADITHYA	5126	7.25	9	8	5	29


Faculty

HOD

DEAN


Principal

Name of the Course: Cops Lab
Section: C

Course Code: A405507
Branch: CSE

CONTINUOUS INTERNAL EVALUATION – FINAL MARKS

S.No.	Name of the Student	Roll number	Day to Day Evaluation	Laboratory Project	Assessment	Laboratory Internal Exam	Total Internal Marks
			10	10	10	10	40
21.	T. SRAVYA	538	7.6	8	8	9	33
22.	T. LATHIKA	539	9.0	8	8	5	30
23.	T. NIHARIKA	540	7.9	8	8	9	33
24.	V. SHIVA SAI	541	7.8	8	8	5	29
25.	V. DINESH REDDY	542	6.9	9	7	7	30
26.	V. VIGINESH	543	6.75	9	7	6	29
27.	Y. BHANU	544	8.75	9	7	6	31
28.	G. MANIKANTA	22H55A0515	7.41	9	7	6	30
29.	G. AISHWARYA	516	7.41	9	9	9	34
30.	G. KAVYANJALI	517	8.0	9	9	9	35
31.	K. SUSHANTH	518	5.25	9	9	5	28
32.	K. HARSHITHA	519	5.91	9	9	5	31
33.	M. SAI PRASANNA	520	7.0	8	8	5	28
34.	M. SHESHANK REDDY	521	7.6	8	8	5	29
35.	O. SRAVAN KUMAR	522	8.25	8	8	4	28
36.	P. SAI PAVAN	524	8.6	8	8	6	31


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NAME OF THE EXPERIMENTS AND THEIR CODES

S.No.	Name of the Experiment	Experiment Code
1	Use Eclipse or Net bean platform, create a text project, add class & run it. Small pro. about 10-15 lines.	Week-01
2	WASP that implements a multi-thread application three thread. 1st random & 2nd square & prints.	Week-02
3	WASP to create an abstract class, two integers & empty methods.	Week-03
4	WASP that consumer problem using the concept of thread communication.	Week-04
5	WASP for simple calculator with buttons for the digital operation operators.	Week-05
6	① Develop an applet in Java that display simple message ② Dev an applet for factorial value for given number.	Week-06
7	WASP to perform integer divisions along with possible execution.	Week-07
8	WASP to display the table using Labels in Grid layout.	Week-08
9	WASP that simulates a traffic light.	Week-09
10	WASP that loads number & Phone number from a text file.	Week-10
11	WASP that handles all mouse events and shows the event name at the event ^{-name}	Week-11
12	WASP to list all the files in a directory including file presentation	Week-12
13		
14		
15		



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Kandlakoya(V), Medchal Road, Hyderabad -501 401

Name of the Course: ODPS 1ab
Section: 1ab

Course Code: A405507

Branch: CSE-C

II. LABORATORY PROJECT

S.No.	Roll number	Name of the Project	Problem Definition & Objectives	Design & Methods	Implementation & Results / Testing	TOTAL	On Scale of 10
			10	20	20	50	10
1	5G7	HOSPITAL MANAGEMENT SYSTEM	8	14	14	36	8
2	5G8	HOSPITAL MANAGEMENT SYSTEM	8	14	15	37	8
3	5G9	HOSPITAL MANAGEMENT SYSTEM	8	15	15	38	8
4	5H0	HOSPITAL MANAGEMENT SYSTEM	9	16	15	40	8
5	5H1	CRIMINAL RECORD MANAGEMENT SYSTEM	9	18	18	45	9
6	5H2	CRIMINAL RECORD MANAGEMENT SYSTEM	9	18	16	43	9
7	5H3	CRIMINAL RECORD MANAGEMENT SYSTEM	9	17	18	44	9
8	5H4	CRIMINAL RECORD MANAGEMENT SYSTEM	8	16	17	41	9
9	5H5	TEACHERS FEEDBACK	8	17	17	42	9
10	5H6	TEACHERS FEEDBACK	9	18	17	44	9
11	5H7	TEACHERS FEEDBACK	9	16	18	43	9
12	5H9	TEACHERS FEEDBACK	9	15	17	41	9
13	5J0	AIRLINE RESERVATION SYSTEM	8	15	14	37	8
14	5J1	AIRLINE RESERVATION SYSTEM	9	14	15	38	8
15	5J2	AIRLINE RESERVATION SYSTEM	8	14	14	36	8
16	5J3	AIRLINE RESERVATION SYSTEM	9	16	15	40	8
17	5J4	PHARMACY MANAGEMENT SYSTEM	9	18	18	45	9
18	5J5	PHARMACY MANAGEMENT SYSTEM	9	16	18	43	9
19	5J6	PHARMACY MANAGEMENT SYSTEM	8	17	17	42	9
20	5J7	PHARMACY MANAGEMENT SYSTEM	9	17	18	44	9

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Kamalakona V.L. Medchal Road, Hyderabad - 501 401

Name of the Centre: IT Lab

Course Code: A405507
Branch: CSE-C

II. LABORATORY PROJECT

S.No.	Roll number	Name of the Project	Problem Definition & Objectives	Design & Methods	Implementation & Results / Testing	TOTAL	On Scale of 10
			10	20	20	50	10
21	538	ONLINE BANKING	8	14	14	36	8
22	539	ONLINE BANKING	8	14	15	37	8
23	540	ONLINE BANKING	9	15	15	39	8
24	541	ONLINE BANKING	9	14	15	38	8
25	542	LIBRARY MANAGEMENT SYSTEM	9	18	17	44	9
26	543	LIBRARY MANAGEMENT SYSTEM	8	16	17	41	9
27	544	LIBRARY MANAGEMENT SYSTEM	8	17	17	42	9
28	545	LIBRARY MANAGEMENT SYSTEM	8	18	17	43	9
29	546	SCHOOL MANAGEMENT SYSTEM	8	18	19	45	9
30	547	SCHOOL MANAGEMENT SYSTEM	9	18	18	45	9
31	548	SCHOOL MANAGEMENT SYSTEM	8	17	17	42	9
32	549	SCHOOL MANAGEMENT SYSTEM	9	16	16	41	9
33	520	ATTENDANCE MANAGEMENT SYSTEM	8	16	16	40	8
34	521	ATTENDANCE MANAGEMENT SYSTEM	8	16	16	40	8
35	523	ATTENDANCE MANAGEMENT SYSTEM	9	14	15	38	8
36	524	ATTENDANCE MANAGEMENT SYSTEM	9	15	15	39	8

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Kandlakoya(V), Medchal Road, Hyderabad -501 401

Name of the Course: COPE 105
Section: C

Course Code: A405507
Branch: COC-2

III. ASSESSMENT (PPT/Presentation 7.5m Study)

S.No	Roll number	Content	Presentation	Design	Viva (if applicable)	TOTAL	On Scale of 10
		25	10	5	10	50	10
1	G7	18	5	3	5	31	7
2	G8	17	6	3	5	31	7
3	G9	18	6	3	5	32	7
4	H0	19	8	3	5	35	7
5	H1	19	7	4	5	35	7
6	H2	18	5	3	6	32	7
7	H3	17	6	4	6	33	7
8	H4	15	8	3	7	33	7
9	H5	19	5	4	6	34	7
10	H6	19	6	4	5	34	7
11	H7	17	6	3	5	31	7
12	H9	18	5	3	6	32	7
13	J0	14	5	2	6	27	6
14	J1	9	8	2	7	26	6
15	J2	10	8	3	7	28	6
16	J3	10	7	3	8	30	6
17	J4	17	7	4	8	36	8
18	J5	21	5	4	6	36	8
19	J6	22	6	4	5	37	8
20	J7	22	6	5	5	38	8


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Kandlakoya(V), Medchal Road, Hyderabad -501 401

Name of the Course: OODS 1A B
Section: C

Course Code: A405507
Branch: CSE - C

III. ASSESSMENT (PPT/Poster presentation/Case Study)

S.No.	Roll number	Content	Presentation	Design	Viva (if applicable)	TOTAL	On Scale of 10
		25	10	5	10	50	10
21	J8	18	7	4	8	37	8
22	J9	21	6	5	7	39	8
23	K0	17	7	4	8	36	8
24	K1	24	5	5	6	40	8
25	K2	20	5	4	6	35	7
26	K3	19	6	4	5	34	7
27	K4	19	6	3	5	33	7
28	15	14	8	3	7	32	7
29	16	24	8	5	8	45	9
30	17	22	7	5	8	42	9
31	18	24	8	5	6	43	9
32	19	25	6	5	5	41	9
33	20	20	6	5	5	36	8
34	21	20	7	4	6	37	8
35	23	20	8	5	7	40	8
36	24	21	8	4	6	39	8

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Kandlakoya(V), Medchal Road, Hyderabad -501 401

Name of the Course: cop5 lab
Section: C

Course Code: A405507
Branch: coe-c

IV LABORATORY INTERNAL EXAM

S.No.	Roll number	Write Up	Experiment Connection & Conduction of Experiment	Results	Viva	TOTAL	On Scale of 10
		15	20	5	10	50	10
1	G7	08	07	02	06	23	5
2	G8	13	15	03	06	37	8
3	G9	12	10	02	07	31	7
4	H0	10	10	03	07	30	6
5	H1	10	20	03	07	40	8
6	H2	10	20	03	05	38	8
7	H3	12	18	03	07	40	8
8	H4	12	10	03	05	30	6
9	H5	13	20	04	07	44	9
10	H6	10	05	02	07	24	5
11	H7	10	05	02	06	23	5
12	H8	15	20	03	09	47	10
13	H9	13	03	02	05	23	5
14	I1	13	13	03	06	35	7
15	I2	09	20	03	06	38	8
16	I3	10	10	02	06	28	6
17	I4	12	20	04	07	43	9
18	I5	14	20	04	07	45	7
19	I6	13	12	03	05	33	5
20	I7	10	03	03	05	21	9

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Kandlakoya(V), Medchal Road, Hyderabad -501 401

Name of the Course: B.Tech OOPS LAB
Section: C

Course Code: A405507
Branch: CSE

CONTINUOUS INTERNAL EVALUATION - FINAL MARKS

S.No.	Name of the Student	Roll number	Day to Day Evaluation	Laboratory Project	Assessment	Laboratory Internal Exam	Total Internal Marks
			10	10	10	10	40
01.	A. DEVI SHAMITHA	22H51A05D1	8.8	9	7	9	34
02.	A. AJAY	05D2	8.9	9	7	9	34
03.	A. ANIRUDH REDDY	05D3	9.5	9	7	8	35
04.	A. SHANMUKHI	05D4	8.1	9	7	8	33
05.	A. VENKATESHWAR	05D5	9.6	8	8	7	33
06.	A. SRVHAAS KARTHI	05D6	7.8	8	8	9	33
07.	B. THARUN RAM PATEL	05D7	7.8	8	8	5	29
08.	B. ROJA PUSHPA	05D8	8.3	8	8	6	30
09.	B. GOUTHAMI	05D9	8.8	8	7	8	32
10.	B. SHIRISHA	05E0	9.2	8	7	7	31
11.	B. LAXMAN	05E1	9.6	8	7	7	32
12.	B. ANJANEYULU	05E2	9.5	8	7	9	34
13.	B. GANESH	05E3	9.4	8	7	5	29
14.	C. SRIKAR REDDY	05E4	7.6	8	7	0	23
15.	C. KAVYA SREE	05E5	8.7	8	7	5	29
16.	C. DRABHAS	05E6	9.5	8	7	9	33
17.	C. MAHESH REDDY	05E7	9.6	9	7	6	33
18.	C. RAJ KUMAR	05E8	9.5	9	7	8	33
19.	C. KAVERI REDDY	05E9	9.6	9	7	10	36
20.	D. SESHU REDDY	05F0	9.6	9	7	9	35


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Kandlakoya(V), Medchal Road, Hyderabad -501 401

Name of the Course: OOPS LAB

Course Code: AU05507

Section: C

Branch: CSE

CONTINUOUS INTERNAL EVALUATION - FINAL MARKS

S.No.	Name of the Student	Roll number	Day to Day Evaluation	Laboratory Project	Assessment	Laboratory Internal Exam	Total Internal Marks
			10	10	10	10	40
21.	E. VAISHNAVI	22451A05F1	9.0	9	8	9	36
22.	G. SAI TEJA	05F2	8.1	9	8	7	33
23.	G. VIGNAN	05F3	8.0	9	8	6	31
24.	G. SAI GANESH	05F4	8.9	9	8	9	35
25.	K. PRABHAVATHI	05F5	8.2	8	6	9	31
26.	K. SRAVANI	05F6	9.6	8	6	10	34
27.	K. UNNATHI	05F7	9.6	8	6	5	29
28.	K. DEEKSHITHA	05F8	7.2	8	6	6	27
29.	K. SAI KRISHNA REDDY	05F9	7.8	9	9	7	33
30.	K. ANAND KUMAR	05G10	9.5	9	9	9	36
31.	K. AKHIL	05G11	9.6	9	9	9	36
32.	K. VISHALINI	05G12	9.6	9	9	10	38
33.	K. SHARANYA	05G13	9.5	8	6	6	29
34.	L. LOKESH	05G14	8.6	8	6	7	30
35.	M. MANOJ KUMAR	05G16	8.0	8	6	5	27

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NAME OF THE EXPERIMENTS AND THEIR CODES

S.No.	Name of the Experiment	Experiment Code
1	Use Eclipse or Net bean platform, create a test project, add class & run it. Small pg about 10-15 lines.	Week-01
2	WASP that implements a multi-thread application three thread, get random integer & 2nd square & prints.	Week-02
3	WASP to create an abstract class, two integers & empty methods.	Week-03
4	WASP that concerns problem using the concept of thread communication.	Week-04
5	WASP for simple calculator with buttons for the digital operation operators.	Week-05
6	Develop an applet in Java that display complex numbers. An applet for factorial value for given number.	Week-06
7	WASP to perform integer divisions along with possible executions.	Week-07
8	WASP to display the table using Labels in grid layout.	Week-08
9	WASP that simulates a traffic light.	Week-09
10	WASP that loads number & phone number from a text file.	Week-10
11	WASP that handles all mouse events and shows the event name at the center of window.	Weeks - 11
12	WASP to list all the file in a directory including file present in sub-d.	Week-12
13		
14		
15		



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Name of the Course: OOPS LAB

Course Code: A405507

Section: C

Branch: CSE

II. LABORATORY PROJECT

S.No.	Roll number	Name of the Project	Problem Definition & Objectives	Design & Methods	Implementation & Results / Testing	TOTAL	On Scale of 10
			10	20	20	50	10
1	D1	Attendance Management System	9	15	18	42	9
2	D2	Attendance Management System	9	18	15	42	9
3	D3	Attendance Management System	8	16	19	43	9
4	D4	Attendance Management System	8	19	16	43	9
5	D5	Create a Phone Emulator	8	15	14	37	8
6	D6	Create a Phone Emulator	8	16	14	38	8
7	D7	create a Phone Emulator	8	18	14	40	8
8	D8	Create a phone Emulator	9	14	14	37	8
9	D9	ATM Simulation System	9	14	14	37	8
10	E0	ATM Simulation System	8	16	15	39	8
11	E1	ATM Simulation system	9	15	15	39	8
12	E2	ATM Simulation System	9	17	14	40	8
13	E3	Password Generator using Java	8	18	14	40	8
14	E4	Password Generator using Java	9	15	14	38	8
15	E5	Password Generator using Java	7	15	15	37	8
16	E6	Password Generator using Java	8	16	16	40	8
17	E7	Electricity Billing System	7	15	15	37	8
18	E8	Electricity Billing System	9	17	14	40	8
19	E9	Electricity Billing System	9	16	19	44	9
20	F0	Electricity Billing System	9	15	17	41	9

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Kandlakoya(V), Medchal Road, Hyderabad - 501 401

Name of the Course: DOPS LAB
Section: C

Course Code: 1405504
Branch: CSE

II. LABORATORY PROJECT

S.No.	Roll number	Name of the Project	Problem Definition & Objectives	Design & Methods	Implementation & Results / Testing	TOTAL	On Scale of 10
			10	20	20	50	10
21	F1	Word count Tools in Java	9	17	19	45	9
22	F2	Word count Tools in Java	9	17	19	45	9
23	F3	Word count Tools in Java	9	17	19	45	9
24	F4	Word count Tools in Java	9	17	19	45	9
25	F5	Exam Seating arrangement System	9	17	14	40	8
26	F6	Exam Seating arrangement System	7	15	16	38	8
27	F7	Exam Seating arrangement System	7	15	15	37	8
28	F8	Exam Seating arrangement System	7	15	14	36	8
29	F9	Scientific Calculator in Java	9	17	15	41	9
30	G10	Scientific Calculator in Java	9	15	17	41	9
31	G11	Scientific Calculator in Java	9	17	18	44	9
32	G12	Scientific Calculator in Java	8	16	19	43	9
33	G13	Employee Management System	9	17	14	40	8
34	G14	Employee Management System	6	15	15	36	8
35	G15	Employee Management System	7	15	15	37	8

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Name of the Course: **DOPS LAB**
Section: **C**

Course Code: **A405504**
Branch: **CSE**

III. ASSESSMENT (PPT/Poster presentation/Case Study)

S.No.	Roll number	Content	Presentation	Design	Viva (If applicable)	TOTAL	On Scale of 10
		25	10	5	10	50	10
1	D2H51A05D1	15	9	2	5	31	7
2	D2	15	9	2	5	31	7
3	D3	16	8	3	4	31	7
4	D4	15	9	2	5	31	7
5	D5	21	7	3	5	36	8
6	D6	21	9	2	4	36	8
7	D7	24	8	3	5	40	8
8	D8	25	9	2	4	40	8
9	A7	16	7	3	6	32	7
10	E0	20	6	2	4	32	7
11	E1	16	8	3	5	32	7
12	E2	17	9	2	4	32	7
13	E3	16	9	3	5	33	7
14	E4	20	8	2	4	34	7
15	E5	20	6	3	5	34	7
16	E6	19	9	2	4	34	7
17	E7	19	8	3	5	35	7
18	E8	21	9	1	4	35	7
19	E9	21	8	2	4	35	7
20	F0	19	9	3	4	35	7

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Kandlakoya(V), Medchal Road, Hyderabad - 501 401

Name of the Course: oops
Section: C

Course Code: A005507
Branch: CSE

III. ASSESSMENT (PPT/Paper presentation/Case Study)

S.No.	Roll number	Content	Presentation	Design	Viva (if applicable)	TOTAL	On Scale of 10
		25	10	5	10	50	10
21	F ₁	24	9	1	4	38	8
22	F ₂	23	9	2	4	38	8
23	F ₃	24	8	3	5	40	8
24	F ₄	23	7	2	4	36	8
25	F ₅	12	7	1	6	26	6
26	F ₆	13	6	2	5	26	6
27	F ₇	13	9	2	4	28	6
28	F ₈	16	8	2	4	30	6
29	F ₉	25	9	4	4	44	9
30	G ₁₀	24	8	3	5	45	9
31	G ₁₁	25	9	3	8	45	9
22	G ₁₂	24	8	3	10	45	9
33	G ₁₃	17	7	2	4	30	6
34	G ₁₄	14	6	2	4	26	6
35	G ₁₆	9	8	3	6	26	6

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Kandlakoya(V), Medchal Road, Hyderabad -501 401

Name of the Course: B.Tech - ceps LAB
Section: C

Course Code: A405507
Branch: CSE

IV LABORATORY INTERNAL EXAM

S.No.	Roll number	Write Up	Experiment Connection & Conduction of Experiment	Results	Viva	TOTAL	On Scale of 10
		15	20	5	10	50	10
1	22H51A0521	18	18	04	7	41	9
2	D2	13	20	03	07	43	9
3	D3	13	10	02	07	39	8
4	D4	13	16	03	07	39	8
5	D5	10	17	03	05	35	7
6	D6	13	20	03	07	43	9
7	D7	10	07	03	05	25	5
8	D8	10	10	03	05	28	6
9	D9	12	17	04	07	40	8
10	E0	12	05	03	06	26	6
11	E1	12	10	03	06	31	7
12	E2	14	20	04	08	45	9
13	E3	12	05	02	05	24	5
14	E4	-	-	-	-	-	-
15	E5	07	05	04	05	21	5
16	E6	14	20	03	06	43	9
17	E7	11	15	03	07	36	6
18	E8	12	20	03	05	40	8
19	E9	15	20	05	08	48	10
20	F0	12	20	03	07	42	9

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Kambikoru V.L. Madhal Road, Hyderabad - 501 401

Name of the Course: CAPS CDS Course Code: 1402504
Section: C Branch: CSE

IV LABORATORY INTERNAL EXAM

S.No	Roll number	Write Up	Experiment Connection & Conduct of Experiment	Results	Viva	TOTAL	On Scale of 10
		15	20	5	10	50	10
21	F1	13	20	03	06	42	9
22	F2	12	10	03	07	32	7
23	F3	08	13	03	06	30	6
24	F4	13	20	03	07	43	9
25	F5	13	18	03	07	41	9
26	F6	15	20	05	08	48	10
27	F7	10	07	03	05	25	5
28	F8	13	06	02	05	26	6
29	F9	13	14	03	05	35	7
30	G0	13	20	03	06	42	9
31	G1	14	20	03	08	45	9
32	G2	15	20	05	07	47	10
33	G3	10	10	03	07	30	6
34	G4	10	15	02	05	32	7
35	G6	10	07	03	04	24	5

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Kandlakoya, Medchal Road, Hyderabad -501401

Department of Computer Science and Engineering

CO ATTAINMENT

The Course outcomes are the statements that describe that student is likely to know and be able to do at the end of each course. The CO attainment level are calculated based on the performance of the students in the Continuous Internal Assessment(CIE) and End Semester Examinations(SEE)

BATCH:2019-2023

	CO1	3	3	3	3	1.8	Y
A30508 Object Oriented Programming through JAVA Lab	CO2	3	3	3	3	1.8	Y
	CO3	3	3	3	3	1.8	Y
	CO4	3	3	3	3	1.8	Y
	CO5	3	3	3	3	1.8	Y



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Kandlakoya, Medchal Road, Hyderabad

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

OOPS THROUGH JAVA LAB MANUAL

2nd year I-sem

LIST OF EXPERIMENTS:

1. Use Eclipse or Net bean platform and acquaint yourself with the various menus. Create a test project, add a test class, and run it. See how you can use auto suggestions, auto fill. Try code formatter and code refactoring like renaming variables, methods, and classes. Try debug step by step with a small program of about 10 to 15 lines which contains at least one if else condition and a for loop.
2. Write a Java program that implements a multi-thread application that has three threads. First thread generates a random integer every 1 second and if the value is even, the second thread computes the square of the number and prints. If the value is odd, the third thread will print the value of the cube of the number.
3. Write a Java program to create an abstract class named Shape that contains two integers and an empty method named print Area (). Provide three classes named Rectangle, Triangle, and Circle such that each one of the classes extends the class Shape. Each one of the classes contains only the method print Area () that prints the area of the given shape.
4. Write a Java program that correctly implements the producer – consumer problem using the concept of inter thread communication.
5. Write a Java program that works as a simple calculator. Use a grid layout to arrange buttons for the digits and for the +, -, *, % operations. Add a text field to display the result. Handle any possible exceptions like divided by zero.
6. A) Develop an applet in Java that displays a simple message.
B) Develop an applet in Java that receives an integer in one text field, and computes its factorial Value and returns it in another text field, when the button named "Compute" is clicked.
7. Write a Java program that creates a user interface to perform integer divisions. The user enters two numbers in the text fields, Num1 and Num2. The division of Num1 and Num 2 is displayed in the Result field when the Divide button is clicked. If Num1 or Num2 were not an integer, the program would throw a Number Format Exception. If Num2 were Zero, the program would throw an Arithmetic Exception. Display the exception in a message dialog box.

8. Suppose that a table named Table.txt is stored in a text file. The first line in the file is the header, and the remaining lines correspond to rows in the table. The elements are separated by commas.

Write a java program to display the table using Labels in Grid Layout.

9. Write a Java program that simulates a traffic light. The program lets the user select one of three lights: red, yellow, or green with radio buttons. On selecting a button, an appropriate message with "Stop" or "Ready" or "Go" should appear above the buttons in the selected color. Initially, there is no message shown.

10. Write a Java program that loads names and phone numbers from a text file where the data is organized as one line per record and each field in a record are separated by a tab (\t). It takes a name or phone number as input and prints the corresponding other value from the hash table (hint: use hash tables).

11. Write a Java program that handles all mouse events and shows the event name at the center of the window when a mouse event is fired (Use Adapter classes).

12. Write a Java program to list all the files in a directory including the files present in all its subdirectories.

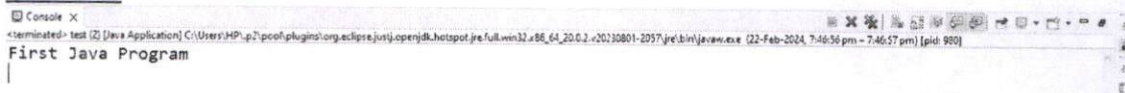
EXPERIMENT 1:

Use Eclipse or Net bean platform and acquaint yourself with the various menus. Create a test project, add a test class, and run it. See how you can use auto suggestions, auto fill. Try code formatter and code refactoring like renaming variables, methods, and classes. Try debug step by step with a small program of about 10 to 15 lines which contains at least one if else condition and a for loop.

1)Creating test class in test project:

```
package test;
public class test {
public static void main(String[] args)
{
    System.out.println("First Java Program");
}
}
```

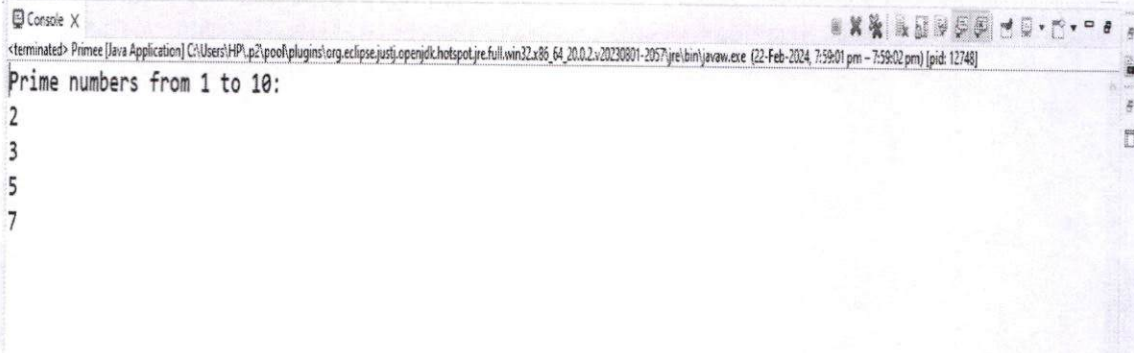
OUTPUT:



2)Prime Numbers:

```
package Package1;
public class Prime{
    public static void main(String[] args) {
        int n=10;
        System.out.println("Prime numbers from 1 to " + n + ":");
        for(int i=1;i<=10;i++)
        {
            int count=0;
            for(int j=1;j<=i;j++)
            {
                if(i%j==0)
                {
                    count++;
                }
            }
            if(count==2)
            {
                System.out.println(i);
                n++;
            }
        }
    }
}
```


OUTPUT:



```
Console X
<terminated> Primee [Java Application] C:\Users\HP\p2\pooof\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86_64_20.0.2.v20230801-2057\jre\bin\javaw.exe (22-Feb-2024, 7:59:01 pm - 7:59:02 pm) [pid: 12748]
Prime numbers from 1 to 10:
2
3
5
7
```

3) Fibonacci Series:

```
package Package1;
```

```
public class fib {
    static int fib(int n)
    {
        if(n<=1)
            return n;
        return fib(n-1)+fib(n-2);
    }
    public static void main(String args[])
    {
        int N=10;
        for(int i=0;i<N;i++)
        {
            System.out.println(fib(i)+" ");
        }
    }
}
```

OUTPUT:



```
Console X
<terminated> fib (1) [Java Application] C:\Users\HP\p2\pooof\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86_64_20.0.2.v20230801-2057\jre\bin\javaw.exe (22-Feb-2024, 8:01:27 pm - 8:01:27 pm) [pid: 2240]
0
1
1
2
3
5
8
13
21
34
```

EXPERIMENT 2:

Write a Java program that implements a multi-thread application that has three threads. First thread generates a random integer every 1 second and if the value is even, the second thread computes the square of the number and prints. If the value is odd, the third thread will print the value of the cube of the number.

```
package Package1;
import java.util.Random;
class square extends Thread
{
    int x;
    square(int n)
    {
        x=n;
    }
    public void run()
    {
        int sq=x*x;
        System.out.println("Square is"+sq);
    }
}
class cube extends Thread{
    int x;
    cube(int n)
    {
        x=n;
    }
    public void run()
    {
        int cb=x*x*x;
        System.out.println("Cube is"+cb);
    }
}
class Rnumber extends Thread
{
    public void run()
    {
        Random r=new Random();
        for(int i=0;i<3;i++)
        {
            int randomInt=r.nextInt(30);
            System.out.println("Random integer:"+randomInt);
            square s=new square(randomInt);
            s.start();
            cube c=new cube(randomInt);
            c.start();
            try {
```

EXPERIMENT 3:

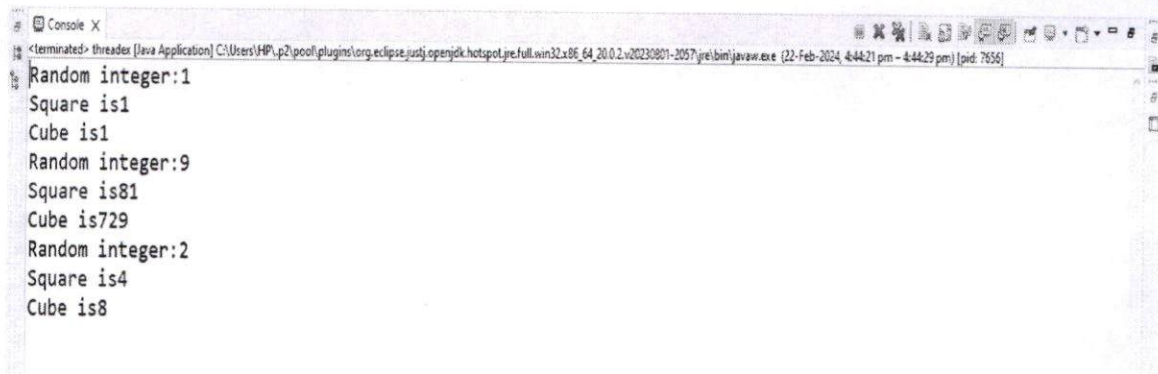
Write a Java program to create an abstract class named Shape that contains two integers and an empty method named print Area (). Provide three classes named Rectangle, Triangle, and Circle such that each one of the classes extends the class Shape. Each one of the classes contains only the method print Area () that prints the area of the given shape.

```
package Package1;
abstract class shapes {
    static int x=8, y=4;
    abstract void area();
}
class rect extends shape
{
    @Override
    void area() {
        System.out.println("AREA OF RECTANGLE:"+x*y);
    }
}
class tri extends shape
{
    @Override
    void area() {
        System.out.println("AREA OF TRIANGLE:"+0.5*x*y);
    }
}
class circle extends shape
{
    @Override
    void area() {
        System.out.println("AREA OF CIRCLE:"+3.14*x*x);
    }
}
public class shapes
{ public static void main(String[] args)
    {
        rect r=new rect();
        r.area();
        tri t=new tri();
        t.area();
        circle c=new circle();
        c.area();
    }
}}
```

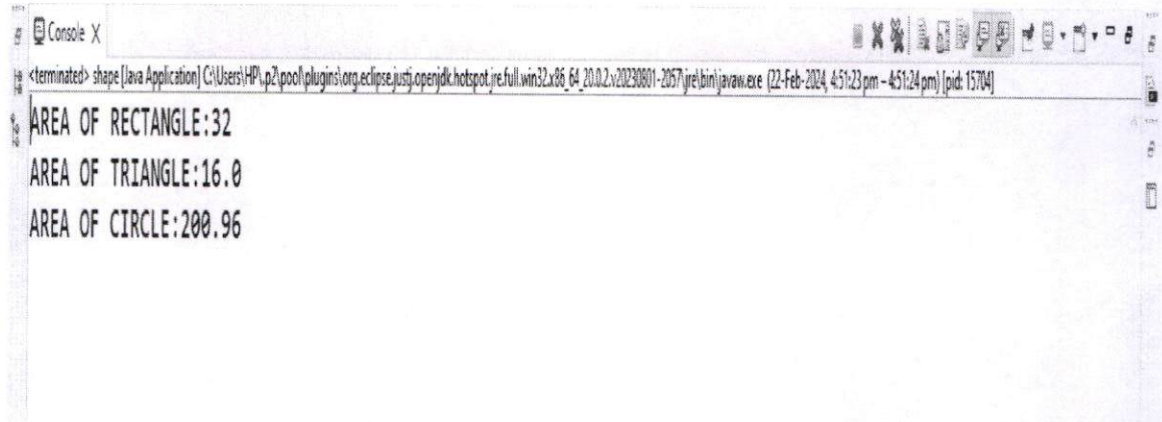
```
        Thread.sleep(2000);
    }
    catch(InterruptedException e)
    {
        System.out.println(e);
    }
}
}
```

```
public class threadexample {
public static void main(String[] args)
{
    Rnumber r1=new Rnumber();
    r1.start();
}
}
```

OUTPUT:



OUTPUT:



The screenshot shows a Java console window titled "Console X". The window's title bar includes the text: "<terminated> shape [Java Application] C:\Users\HP\p2\pool\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86_64_20.0.2\v20230801-2057\jre\bin\javaw.exe (22-Feb-2024, 4:51:23 pm - 4:51:24 pm) [pid: 15704]". The main content of the console displays the following output:

```
AREA OF RECTANGLE:32  
AREA OF TRIANGLE:16.0  
AREA OF CIRCLE:200.96
```

EXPERIMENT 4:

Write a Java program that correctly implements the producer – consumer problem using the concept of inter thread communication.

```
package Package1;
class Q
{
    int n;
    boolean valueSet=false;
    synchronized public void get()
    {
        if(!valueSet)
        {
            try{wait();
            }
            catch(Exception e) {}
        }
        System.out.println("GET :"+n);
        try{
            Thread.sleep(2000);
        }catch(Exception e) {}
        valueSet=false;
        notify();
    }
    synchronized public void put(int nn)
    {
        if(valueSet)
        {
            try{wait();
            }
            catch(Exception e) {}
        }
        n=nn;
        System.out.println("PUT :"+n);
        try{Thread.sleep(1000);}catch(Exception e) {};
        valueSet=true;
        notify();
    }
}
class Producer extends Thread
{
```

```
Q q;
public Producer(Q qq)
{
    q=qq;
}
@Override
public void run()
{
    int i=0;
    while(true)
    {
        q.put(i++);
    }
}
}
class Consumer extends Thread
{
    Q q;
    public Consumer(Q qq)
    {
        q=qq;
    }
    @Override
    public void run()
    {
        while(true)
        {
            q.get();
        }
    }
}
}
public class Test3
{
    public static void main(String[] args)
    {
        Q q=new Q();
        Producer p=new Producer(q);
        Consumer c=new Consumer(q);
        p.start();
        c.start();
    }
}
```

OUTPUT:

```
Console X
<terminated> Test3 [Java Application] C:\Users\HP\AppData\Local\Temp\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_20.0.2.v20230801-2057\re\bin\javaw.exe (22-Feb-2024, 5:54:43 pm - 5:56:33 pm) [pid: 12416]
PUT :0
GET :0
PUT :1
GET :1
PUT :2
GET :2
PUT :3
GET :3
PUT :4
GET :4
```


EXPERIMENT 5:

Write a Java program that works as a simple calculator. Use a grid layout to arrange buttons for the

digits and for the +, -, *, % operations. Add a text field to display the result. Handle any possible exceptions like divided by zero.

```
package package2;
import javax.swing.*;
import java.awt.*;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
public class SimpleCalculator extends JFrame implements
ActionListener {
    private JTextField textField;
    private String operator = "";
    private double num1 = 0;

    public SimpleCalculator() {
        setTitle("Simple Calculator");
        setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        setSize(300, 400);
        setLayout(new GridLayout(5, 4));

        textField = new JTextField();
        add(textField);

        String[] buttons1 = {"1", "2", "3", "4", "5", "6", "7", "8",
"9", "0", "/", "*", "-", "+", "=", "C"};

        for (String label : buttons1) {
            JButton button = new JButton(label);
            button.addActionListener(this);
            add(button);
        }

        setVisible(true);
    }

    public void actionPerformed(ActionEvent e) {
        String command = e.getActionCommand();
        if (Character.isDigit(command.charAt(0))) {
            textField.setText(textField.getText() + command);
        } else if ("C".equals(command)) {
            textField.setText("");
            num1 = 0;
            operator = "";
        }
    }
}
```

```

    } else if ("=".equals(command)) {
        try {
            double num2 =
Double.parseDouble(textField.getText());
            switch (operator) {
                case "+":
textField.setText(String.valueOf(num1+num2));
                    break;
                case "-":
                    textField.setText(String.valueOf(num1-num2));
                    break;
                case "*":
textField.setText(String.valueOf(num1 * num2));
                    break;
                case "/":
                    if (num2 == 0) {
                        throw new ArithmeticException("Cannot
divide");
                    }
                    textField.setText(String.valueOf(num1 / num2));
                    break;
            }
        } catch (NumberFormatException ex) {
            textField.setText("Error");
        } catch (ArithmeticException e2) {
            JOptionPane.showMessageDialog(this, "Cannot divide
by zero.",
                "Arithmetic Exception",
JOptionPane.ERROR_MESSAGE);
        }

    } else {
        operator = command;
        num1 = Double.parseDouble(textField.getText());
        textField.setText("");
    }
}

public static void main(String[] args) {
    new SimpleCalculator();
}
}

```

OUTPUT:

	1	2	3
4	5	6	7
8	9	0	.
.		* <td>-</td>	-
C			

EXPERIMENT 6:

A) Develop an applet in Java that displays a simple message.

```
package package2;

import java.applet.Applet;
import java.awt.Graphics;

public class samplemsg extends Applet {

    @Override

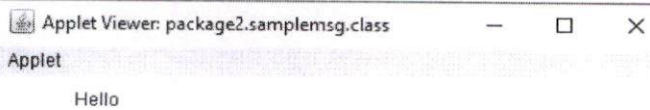
    public void paint(Graphics g) {

        g.drawString("Hello", 50, 20);

    }

}
```

OUTPUT:



Applet started.

6 B) Develop an applet in Java that receives an integer in one text field, and computes its factorial

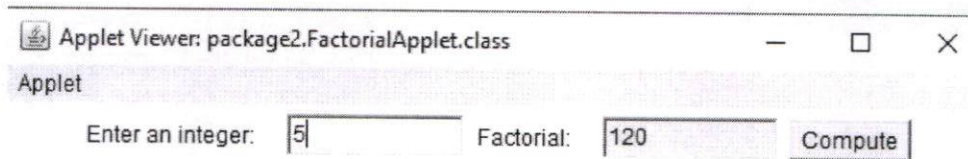
Value and returns it in another text field, when the button named "Compute" is clicked.

```
package package2;
import java.applet.Applet;
import java.awt.Button;
import java.awt.Graphics;
import java.awt.Label;
import java.awt.TextField;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
public class FactorialApplet extends Applet {
    private TextField t1, t2;
    @Override
    public void init() {
        Label l1 = new Label("Enter an integer:");
        t1 = new TextField(10);
        Label l2 = new Label("Factorial:");
        t2 = new TextField(10);

        t2.setEditable(false);
        Button b1 = new Button("Compute");
        b1.addActionListener(new ActionListener() {
            @Override
            public void actionPerformed(ActionEvent e) {
                Factorial();
            }
        });
        add(l1);
        add(t1);
        add(l2);
        add(t2);
        add(b1);
    }
    private void Factorial() {
        try {
            int num = Integer.parseInt(t1.getText());
            long factorial = calculateFactorial(num);
            t2.setText(String.valueOf(factorial));
        } catch (NumberFormatException ex) {
            t2.setText("Invalid Input");
        }
    }
}
```

```
private long calculateFactorial(int n) {
    if (n < 0) {
        return -1;
    }
    long fact = 1;
    for (int i = 1; i <= n; i++) {
        fact = fact * i;
    }
    return fact;
}
}
```

OUTPUT:



Applet started.

EXPERIMENT 7:

Write a Java program that creates a user interface to perform integer divisions. The user enters two numbers in the text fields, Num1 and Num2. The division of Num1 and Num 2 is displayed in the Result field when the Divide button is clicked. If Num1 or Num2 were not an integer, the program would throw a Number Format Exception. If Num2 were Zero, the program would throw an Arithmetic Exception. Display the exception in a message dialog box.

```
package package2;
import javax.swing.*;
import java.awt.*;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;

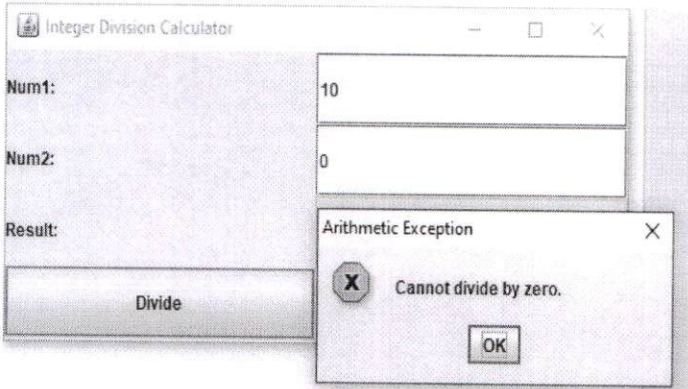
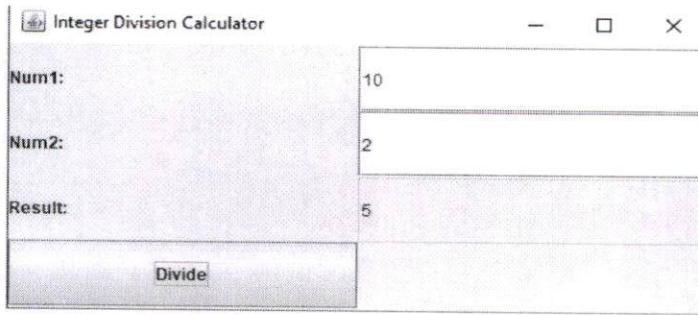
public class IntegerDivision extends JFrame {
    private JTextField num1, num2, result;
    public IntegerDivision() {
        setTitle("Integer Division Calculator");
        setSize(300, 200);
        setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        setLocationRelativeTo(null);
        num1 = new JTextField(10);
        num2 = new JTextField(10);
        result = new JTextField(10);
        result.setEditable(false);
        JButton divideButton = new JButton("Divide");
        divideButton.addActionListener(new ActionListener() {
            @Override
            public void actionPerformed(ActionEvent e) {
                performDivision();
            }
        });
        setLayout(new GridLayout(4, 2));
```

```

add(new JLabel("Num1:"));
add(num1);
add(new JLabel("Num2:"));
add(num2);
add(new JLabel("Result:"));
add(result);
add(divideButton);
setVisible(true);
}
private void performDivision() {
    try {
        int n1 = Integer.parseInt(num1.getText());
        int n2 = Integer.parseInt(num2.getText());
        if (n2 == 0) {
            throw new ArithmeticException("Cannot divide by zero!");
        }
        int res = n1 / n2;
        result.setText(String.valueOf(res));
    } catch (NumberFormatException e) {
        JOptionPane.showMessageDialog(this, "Please enter valid integers for Num1 and
Num2.",
            "Number Format Exception", JOptionPane.ERROR_MESSAGE);
    } catch (ArithmeticException e) {
        JOptionPane.showMessageDialog(this, "Cannot divide by zero.",
            "Arithmetic Exception", JOptionPane.ERROR_MESSAGE);
    }
}
public static void main(String[] args) {
    new IntegerDivision();
}

```


OUTPUT:

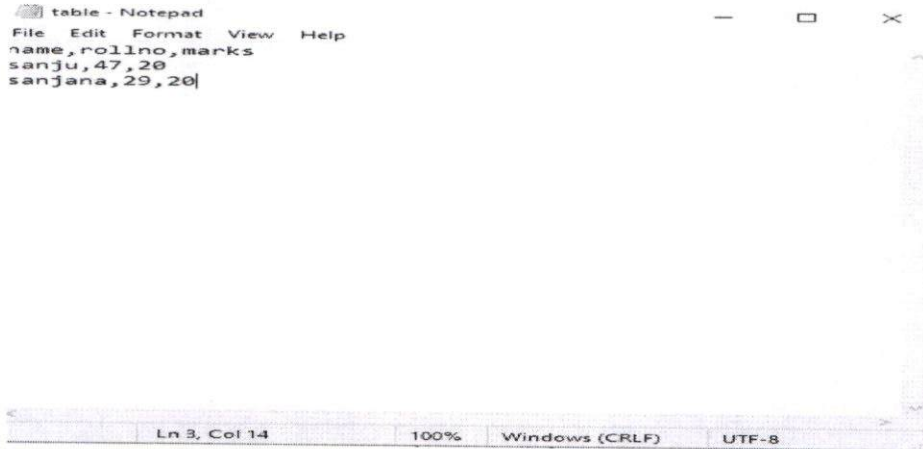


EXPERIMENT 8:

Suppose that a table named Table.txt is stored in a text file. The first line in the file is the header, and the remaining lines correspond to rows in the table. The elements are separated by commas.

Write a java program to display the table using Labels in Grid Layout.

NOTE: Create a file in notepad as shown here:



```
table - Notepad
File Edit Format View Help
name,rollno,marks
sanju,47,20
sanjana,29,20
Ln 3, Col 14 100% Windows (CRLF) UTF-8
```

```
package package2;
import javax.swing.*;
import java.awt.*;
import java.io.BufferedReader;
import java.io.FileReader;
import java.io.IOException;
import java.util.ArrayList;
import java.util.List;

public class TableDisplay extends JFrame {
    public TableDisplay() {
        setTitle("Table Display");
        setSize(400, 300);
        setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        setLocationRelativeTo(null);

        setLayout(new GridLayout(3, 2));
        try {
```

```

List<String[]> l1 = read("C://Users//HP//Desktop//test//table.txt"); //Enter file path
if (l1 != null) {
    String[] s1 = l1.get(0);
    for (String s2 : s1) {
        add(new JLabel(s2));
    }

    for (int i = 1; i < l1.size(); i++) {
        String[] s3 = l1.get(i);
        for (String s4 : s3) {
            add(new JLabel(s4));
        }
    }
}
} catch (IOException e) {
    System.out.println(e);
}

setVisible(true);
}

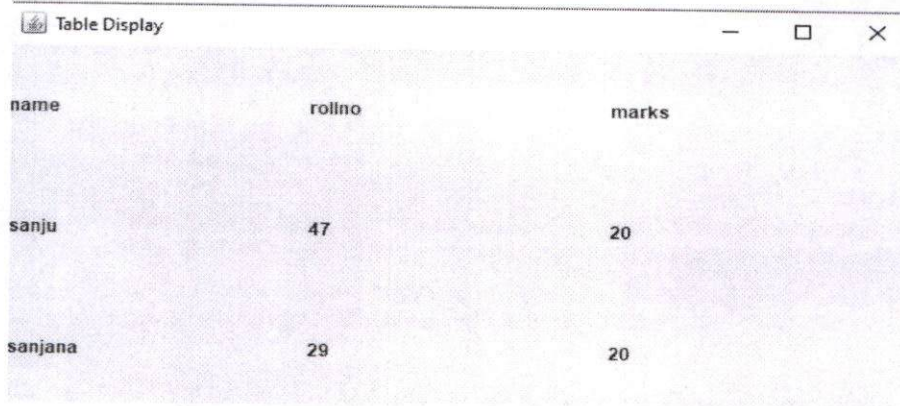
private List<String[]> read(String table) throws IOException {
    List<String[]> l1 = new ArrayList<>();

    try (BufferedReader b1 = new BufferedReader(new FileReader(table))) {
        String line;
        while ((line = b1.readLine()) != null) {
            String[] row = line.split(",");
            l1.add(row);
        }
    }
}
}

```

```
    return l1;
}
public static void main(String[] args) {
    new TableDisplay();
}}
```

OUTPUT:



name	rollno	marks
sanju	47	20
sanjana	29	20

EXPERIMENT 9:

Write a Java program that simulates a traffic light. The program lets the user select one of three lights: red, yellow, or green with radio buttons. On selecting a button, an appropriate message with "Stop" or "Ready" or "Go" should appear above the buttons in the selected color. Initially, there is no message shown.

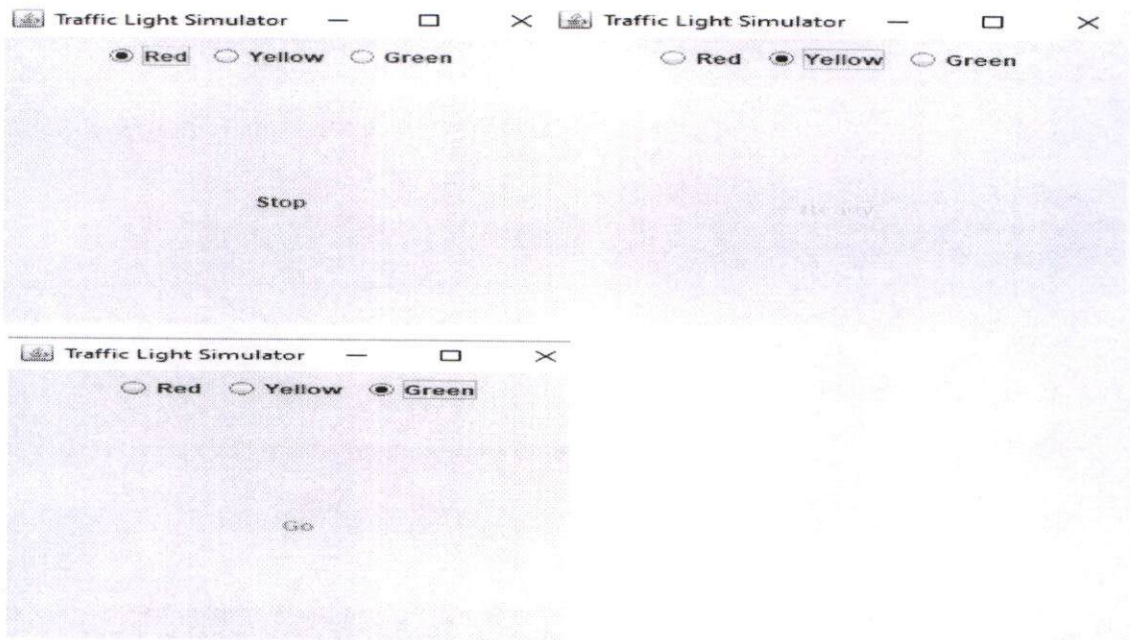
```
package package2;

import java.awt.*;
import java.awt.event.*;
import javax.swing.*;

public class Traffic extends JFrame{
    private JLabel message;
    private JRadioButton red,yellow,green;
    public void showmessage(String msg,Color color)
    {
        message.setText(msg);
        message.setForeground(color);
    }
    public Traffic()
    {
        setTitle("Traffic Light Simulator");
        setSize(300, 300);
        setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        setLocationRelativeTo(null);
        message=new JLabel("",JLabel.CENTER);
        red=new JRadioButton("Red");
        yellow=new JRadioButton("Yellow");
        green=new JRadioButton("Green");
        ButtonGroup b=new ButtonGroup();
        b.add(red);
        b.add(yellow);
        b.add(green);
    }
}
```

```
        red.addActionListener(new ActionListener()
    {
        @Override
        public void actionPerformed(ActionEvent e) {
            showMessage("Stop",Color.RED);
        }
    });
yellow.addActionListener(new ActionListener()
{
    @Override
    public void actionPerformed(ActionEvent e) {
        showMessage("Ready",Color.YELLOW);
    }
});
green.addActionListener(new ActionListener()
{
    @Override
    public void actionPerformed(ActionEvent e) {
        showMessage("Go",Color.GREEN);
    }
});
add(message, BorderLayout.CENTER);
        JPanel p=new JPanel(new FlowLayout());
        p.add(red);
        p.add(yellow);
        p.add(green);
        add(p, BorderLayout.NORTH);
        setVisible(true);
    }
    public static void main(String args[])
    {
        new Traffic();
    }
}
```

OUTPUT:



EXPERIMENT 10:

Write a Java program that loads names and phone numbers from a text file where the data is organized as one line per record and each field in a record are separated by a tab (\t). It takes a name or phone number as input and prints the corresponding other value from the hash table (hint: use hash tables).

NOTE: Create a file in notepad as shown here:

```
java - Notepad
File Edit Format View Help
name phno
sanjana 1234567890
sanju 2365417890
pinky 4561237894
```

```
package package2;
import java.util.HashMap;
import java.util.Map;
import java.io.BufferedReader;
import java.io.IOException;
import java.io.FileReader;
import java.util.Scanner;
public class PhoneBook
{
    private Map<String,String>phoneBook;
    public PhoneBook()
    {
        phoneBook=new HashMap<>();
    }
    public void load(String fileName)throws IOException
    {
        try(BufferedReader reader=new BufferedReader(new FileReader(fileName)))
        {
            String line;
            while((line=reader.readLine())!=null)
            {
                String[] fields=line.split("\\s+");
```



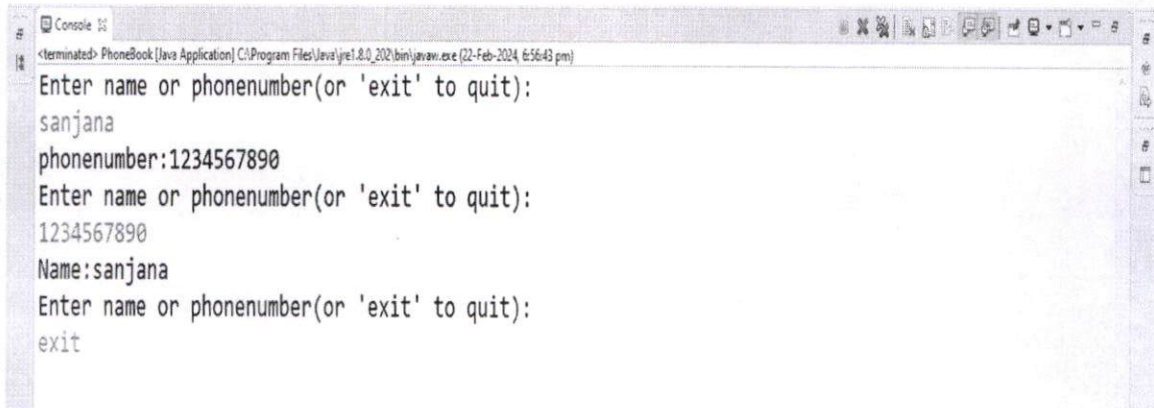
```
        if(fields.length==2)
        {
            String name=fields[0];
            String phoneNumber=fields[1];
            phoneBook.put(name, phoneNumber);
        }
    }
}
}
public String search(String input)
{
    for(Map.Entry<String, String>entry:phoneBook.entrySet())
    {
        if(entry.getValue().equals(input))
        {
            return entry.getKey();
        }
    }

    return phoneBook.get(input);
}
}
public static void main(String[] args)
{
    // TODO Auto-generated method stub
    PhoneBook phoneBook=new PhoneBook();
    try
    {
        phoneBook.load("C://Users//HP//Desktop//test//java.txt");//Enter file path
    }
}
```

```
catch(IOException e)
{
    e.printStackTrace();
    return;
}
Scanner sc=new Scanner(System.in);
while(true)
{
    System.out.println("Enter name or phonenumber(or 'exit' to quit):");
    String input=sc.nextLine();

    if(input.equalsIgnoreCase("exit"))
    {
        break;
    }
    String result=phoneBook.search(input);
    if(result!=null)
    {
        if(input.matches("\\d+"))
        {
            System.out.println("Name:"+result);
        }
        else
        {
            System.out.println("onenumber:"+result);
        }
    }
    else
    {
        System.out.println("entry not found");
    }
}}}
```

OUTPUT:



```
<terminated> PhoneBook [Java Application] C:\Program Files\Java\jre1.8.0_202\bin\javaw.exe (22-Feb-2024, 6:56:43 pm)
Enter name or phonenumber(or 'exit' to quit):
sanjana
phonenumber:1234567890
Enter name or phonenumber(or 'exit' to quit):
1234567890
Name:sanjana
Enter name or phonenumber(or 'exit' to quit):
exit
```

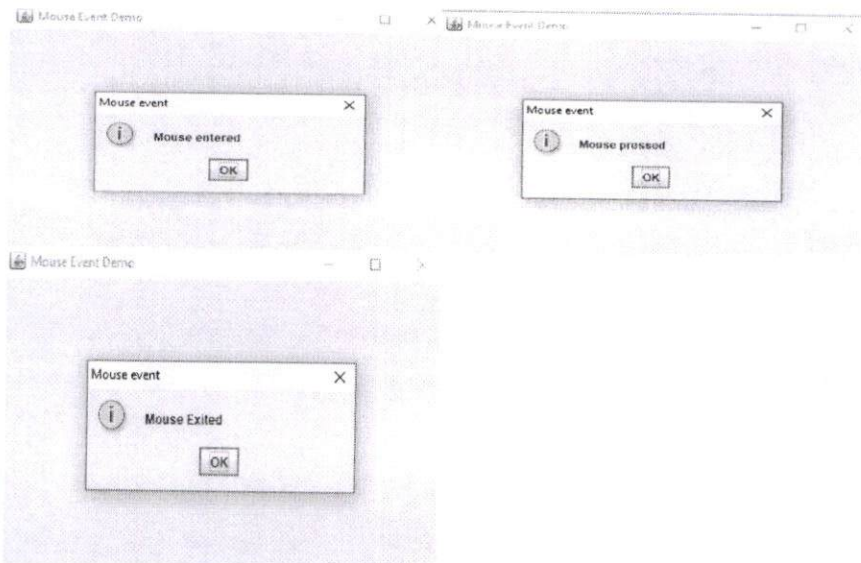


```

        {
            displayEvent("Mouse pressed");
        }
        public void mouseExited(MouseEvent e)
        {
            displayEvent("Mouse Exited");
        }
    });
    private void displayEvent(String msg)
    {
        JOptionPane.showMessageDialog(this, msg, "Mouse event",
        JOptionPane.INFORMATION_MESSAGE);
    }
    public static void main(String args[])
    {
        new Mouseeventexample();
    }
}

```

OUTPUT:

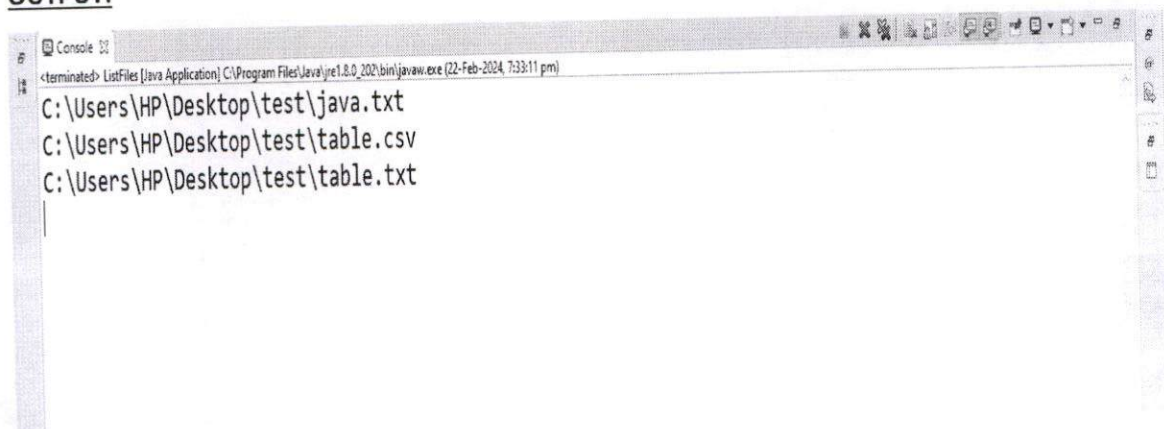


EXPERIMENT 12:

Write a Java program to list all the files in a directory including the files present in all its subdirectories.

```
package package2;
import java.io.File;
public class ListFiles {
    public static void main(String[] args) {
        String directoryPath = "C://Users//HP//Desktop//test";
        ListFiles(new File(directoryPath));
    }
    private static void listFiles(File directory) {
        File[] files = directory.listFiles();
        if (files != null) {
            for (File file : files) {
                if (file.isDirectory()) {
                    ListFiles(file);
                } else {
                    System.out.println(file.getAbsolutePath());
                }
            }
        }
    }
}
```

OUTPUT:



The screenshot shows a console window titled "Console" with the following output:

```
<terminated> ListFiles [Java Application] C:\Program Files\Java\jre1.8.0_202\bin\javaw.exe (22-Feb-2024, 7:33:11 pm)
C:\Users\HP\Desktop\test\java.txt
C:\Users\HP\Desktop\test\table.csv
C:\Users\HP\Desktop\test\table.txt
```