



V.V.P. ENGINEERING COLLEGE
DEPARTMENT OF COMPUTER ENGINEERING
List of Practicals - A.Y. -2024-2025

Staff : Mr. Vinit Thakar, Miss. Kinjal Doshi, Mr. Rohit Chavda

Subject : Object Oriented Programming-I (3140705)

Lab No.	Name of Experiment	CO	CL
1	Program List 1: 1) Write a program to display first n prime numbers 2) Write a program to implement basic calculator 3) Write a program to list a number divisible by n between n1 and n2 range	1	Ap
2	Program List 2: 1) Write a program to validate email address 2) Write a program to validate GTU enrollno 3) Write a program to check given Strings are anagram or not	1	Ap
3	Program List 3: 1) Write a program to implement push and pop operations 2) Write a program to do matrix multiplication (3*3)	a	Ap



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4	<p>Program List 4:</p> <p>1) Write a program to calculate area of circle, triangle and square using the concept of method overloading.</p> <p>2) Write a method with following method header. public static int gcd(int num1, int num2) Write a program that prompts the user to enter two integers and compute the gcd of two integers.</p> <p>3) Define a class Student with name of student, department, and 3 subject marks as data members. Define methods to enter details of 5 students, print details of the entered students and sort details of the students on the base of their percentage.</p> <p>4) Create a class named 'Member' having the following members: 1 - Name 2 - Age 3 - Phone number 4 - Address 5 - Salary It also has a method named 'printSalary' which prints the salary of the members. Two classes 'Employee' and 'Manager' inherits the 'Member' class. The 'Employee' and 'Manager' classes have data members 'specialization' and 'department' respectively. No, assign name, age, phone number, address and salary to an employee and a manager by making an object of both of these classes and print the same along with specialization and department respectively.</p>	1, 2	Ap
5	Program List 4 contd.	1, 2	Ap



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6	Program List 5: 1) Describe abstract class called Shape which has three subclasses say Triangle, Rectangle and Circle. Define one method area() in the abstract class and override this area() in these three subclasses to calculate for specific object. 2) Write a program that illustrates interface inheritance. Interface P is extended by P1 and P2. Interface P12 inherits from both P1 and P2. Each interface declares one constant and one method. class Q implements P12. Instantiate Q and invoke each of its methods. Each method displays one of the constants. 3) Write a program to create interface and declare one method interest(p,r,n) then create two class SimpleInterest and CompoundInterest and calculate simple and compound interest.	1	Ap
7	Program List 5 contd.	1	Ap



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8	<p>Program List 6:</p> <p>1) Create ArrayList mover. In which selected element of one list moved to another. i.e.</p> <p>Subject Selected Subject</p> <p>Java</p> <p>DAA</p> <p>Maths-I</p> <p>EME</p> <p>Database</p> <p>Lets move Java and DAA to selected subject</p> <table><tr><td>Subject</td><td>Selected Subject</td></tr><tr><td>Maths-I</td><td>Java</td></tr><tr><td>EME</td><td>DAA</td></tr><tr><td>Database</td><td></td></tr></table> <p>2) You are given a phone book that consists of people's names and their phone number. After that you will be given some person's name as query. For each query, print the phone number of that person.</p>	Subject	Selected Subject	Maths-I	Java	EME	DAA	Database		3	Ap
Subject	Selected Subject										
Maths-I	Java										
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9	Program List 7: 1) Design program to print a string with TypeWriter effect. 2) Design PrettyPrinter in nonpremtive manner using Thread.	4	Ap
10	Program List 8: 1) Write a program to export book data in csv format. 2) Implement file read, write and append operation	4	Ap
11	Program List 9: 1) Implement a utility to get content from input url.	4	Ap
12	Program List 10: 1) Write a javafx form for user signup which includes username(Textfield), password(passwordfield), gender(radiobutton),branch(combobox),address(textarea),hobbies(checkbox). Create two buttons display value of user data into a label. signup(button), clear(button) 2) Write a javafx program to move a circle from left to right when navigation keys been clicked. when mouse hovered over the circle then it change the color of circle.	4	Ap
13	Program List 10 contd.	4	Ap

Faculty

HOD