



Department of Computer Science and Engineering

Programme: Bachelor of Technology Course Code: CSL 203

Course Name: Object Oriented Programming Lab (in Java) Semester: 3

LIST OF EXPERIMENTS

Exp No.	CO	Name	Details	Mandatory
1	CO2	Palindrome	Java program that checks whether a given string is a palindrome or not. Ex: MALAYALAM is palindrome	Yes
2	CO2	String	Java Program to find the frequency of a given character in a string.	Yes
3	CO2	Two Dimensional Array	Java program to multiply two given matrices	Yes
4	CO1	Overloading	Java program to calculate the area of different shapes namely circle, rectangle, and triangle using the concept of method overloading.	No
5	CO1	Inheritance	Java program which creates a class named 'Employee' having the following members: Name, Age, Phone number, Address, Salary. It also has a method named 'print- Salary()' which prints the salary of the Employee. Two classes 'Officer' and 'Manager' inherits the 'Employee' class. The 'Officer' and 'Manager' classes have data members 'specialization' and 'department' respectively. Now, assign name, age, phone number, address and	Yes



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			salary to an officer and a manager by making an object of both of these classes and print the same.	
6	CO1	Abstract class	Java program to create an abstract class named Shape that contains an empty method named numberOfSides(). Provide three classes named Rectangle, Triangle and Hexagon such that each one of the classes extends the class Shape. Each one of the classes contains only the method numberOfSides() that shows the number of sides in the given geometrical structures. Also find the sumofAngles() of each shape when the side is five.	Yes
7	CO1	Usage of Super and Overriding	<p>Write two Java classes Employee and Engineer. Engineer should inherit from Employee class. Employee class to have two methods display() and calcSalary(). Write a program to display the engineer salary and to display from Employee class using a single object instantiation (i.e., only one object creation is allowed).</p> <ul style="list-style-type: none">● display() only prints the name of the class and does not return any value. Ex. "..... Employee....."● calcSalary() in Employee displays "Salary of employee is 10000" and calcSalary() in Engineer displays "Salary of Engineer is 20000."	No