

Paper Code: BCADSC 3.6

Paper Title: Java Programming Lab

Teaching Hours: 3 Hrs / Week

Marks: Th-40+IA-10

Credits: 1

Assignment Programs:

Section A:

1. Write a Java program to find factorial of a number reading input as command line argument.
2. Write a Java program that creates an object and initializes its data members using constructor. Use constructor overloading concept.
3. Write a Java program to demonstrate method overloading.
4. Write a Java program to demonstrate static variables, methods and blocks.
5. Program to demonstrate multilevel inheritance. Show the usage of super().
6. Write a program to demonstrate use of user defined package by importing the package and access the member variable of classes contained in the package.
7. Write a java program to demonstrate at least 5 string methods using Scanner class.
8. Write a program to demonstrate use of implementing interfaces.

Section B:

1. Write a java program to implement exception handling using multiple catch statements. Also include code to identify the significance of finally block in handling exceptions.
2. Illustrate creation of thread by
 - a) Extending Thread class.
 - b) Implementing Runnable interface
3. Write a Java Program to implement inheritance and demonstrate use of method overriding.
4. Write a Java Program to implement Wrapper classes and their methods.
5. Write a program to create student report using applet, read the input using text boxes and generate the grades.
6. Write an applet program for drawing bar chart.
7. Program to copy bytes from one file to another.

Practice Programs

1. Write a Java program to perform matrix multiplication.
2. Write a Java program to count the frequency of words, characters in the given line of text.
3. Write a Java program to find GCD and LCM of two numbers (GCD is calculated using Euclidean Algorithm. LCM is found using factorization method.).
4. Illustrate thread join concept.
5. Write a Java program implement basic queue operations.
6. Write a Java Program to implement Vector class and its methods.
7. Write a program to implement the concept of Exception Handling by creating user defined exceptions.