Session: 2023-24   **Semester:** 4th   **Section: A, B, C, D**

Course Code: BCS 403   **Course Name: Object Oriented Programming with Java**

Assignment 1

Date of Assignment: 12.04.2024   **Date of submission: 22.04.2024**

S.No.	Question	KL, CO
1	Explain the Memory storages available with JVM.	K2, CO1
2	Explain the difference between JVM, JRE, and JDK.	K2, CO1
3	Explain the difference between instance and local variables.	K2, CO1
4.	How is the creation of a String using new() is different from that of a literal?	K2, CO1
5.	Write a Java program to print the contents of a two-dimensional Boolean array where t represents true and f represents false. Sample array: array = {{true, false, true}, {false, true, false}}; *Expected Output* : t f t f t f	K3, CO1

6	Write a Java program that finds numbers greater than the average of an array. *Expected Output:* Original Array: [1, 4, 17, 7, 25, 3, 100] The average of the said array is: 22.0 The numbers in the said array that are greater than the average are: 25 100	K3, CO1
7	Write a Java program to create a class called "Person" with a name and age attribute. Create two instances of the "Person" class, set their attributes using the constructor, and print their name and age.	K3, CO1
8	Write a Java program to create a class called "Restaurant" with attributes for menu items, prices, and ratings, and methods to add and remove items, and to calculate average rating.	K3, CO1
9	Why is the main method static in Java?	K3, CO1
10	Explain the difference between compile time and run time polymorphism.	K2, CO1