

OOP in Java

Assignment 4

Semester III

Due date: 25th August, 2023

Q1. Define Class and Object. How is the object oriented programming different than Procedural programming.

Q2. Write a java program to demonstrate different ways to determine a class of an object.

Q3. Create a java class to define a complex number. The complex number must have an ability to add, subtract, multiply, divide two complex number. Implement this functionality using methods. Now create two objects to represent complex numbers and demonstrate their use.

Q4. What is method overloading? Write a java program to demonstrate the use of method overloading.

Q5. What is method overriding? Write a program to implement concept of multiple inheritance in Java.

Q6. Define abstract class. Define different types of access control available in Java.

Q7. Define super, final, and this keyword in java. Explain the concept of MVC in brief.

Q8. Define the use of static keyword. Write a java program to demonstrate the use of constructor chaining.

Q9. describe inheritance in Java. Explain why multiple inheritance is not used for class in java.

Q10. Explain association in java. Describe its types with examples in Java.