

#### Assignment 4

1. Explain the types of Inheritance in Java with examples.
2. Is multiple inheritance possible in Java? Justify your answer with example.
3. Differentiate between Method Overloading and Method Overriding.
4. Write a Java program to create a class known as "BankAccount" with methods called deposit() and withdraw(). Create a subclass called SavingsAccount that overrides the withdraw() method to prevent withdrawals if the account balance falls below one hundred.
5. Write a Java program to create a class called Shape with methods called getPerimeter() and getArea(). Create a subclass called Circle that overrides the getPerimeter() and getArea() methods to calculate the area and perimeter of a circle.