ASSIGNMENT:-1

```
🗾 Main.java 🔀
        package Naveen;
        class BankAccount {
   private String accountHolderName;
   private String bankName;
   private double accountBalance;
  90
              public BankAccount(String accountHolderName, String bankName, double initialBalance) {
                  this.accountHolderName = accountHolderName;
                   this.bankName = bankName;
                   this.accountBalance = initialBalance;
             // Method to get current balance
public double getBalance() {
    return accountBalance;
 16
             public void deposit(double amount) {
   if (amount > 0) {
 21
 22
 23
24
                        accountBalance += amount;
                        System.out.println(accountHolderName + " deposited \tilde{\tau}" + amount + " to " + bankName);
 25
                  } else {
                        System.out.println("Invalid deposit amount.");
 310
320
              public void withdraw(double amount) {
   if (amount > 0 && amount <= accountBalance) {</pre>
                        accountBalance -= amount;
                         System.out.println(accountHolderName + " withdrew t" + amount + " from " + bankName);
 35
                         System.out.println("Insufficient balance or invalid withdrawal amount.");
             // Display account summary
public void displayAccount() {
 41
                  System.out.println("Account Holder: " + accountHolderName +
                                             ", Bank: " + bankName +
                                                 Balance: ₹" + accountBalance);
                  System.out.println(" ");
        public class Main {
    public static void main(String[] args) {
 50
                  BankAccount acc1 = new BankAccount("Amit", "ICICI", 10000);
BankAccount acc2 = new BankAccount("Sneha", "HDFC", 15000);
BankAccount acc3 = new BankAccount("Rahul", "SBI", 20000);
 57
58
                  acc1.deposit(5000);
acc1.withdraw(3000);
                  acc1.displayAccount();
 60
61
                  acc2.deposit(2000);
                  acc2.withdraw(5000);
acc2.displayAccount();
                  acc3.deposit(1000);
                  acc3.withdraw(2500);
acc3.displayAccount();
        H
```

Output:-

Input:-

package Naveen;

```
class BankAccount {
 private String accountHolderName;
 private String bankName;
 private double accountBalance;
 // Constructor
 public BankAccount(String accountHolderName, String bankName, double initialBalance) {
   this.accountHolderName = accountHolderName;
   this.bankName = bankName;
   this.accountBalance = initialBalance;
 }
 // Method to get current balance
 public double getBalance() {
   return accountBalance;
 }
 // Method to deposit money
 public void deposit(double amount) {
   if (amount > 0) {
     accountBalance += amount;
     System. out. println(accountHolderName + "deposited ₹" + amount + "to " + bankName);
   } else {
     System. out. println ("Invalid deposit amount.");
   }
 }
 // Method to withdraw money
 public void withdraw(double amount) {
   if (amount > 0 && amount <= accountBalance) {
     accountBalance -= amount;
     System.out.println(accountHolderName + " withdrew ₹" + amount + " from " + bankName);
   } else {
     System.out.println("Insufficient balance or invalid withdrawal amount.");
   }
 }
 // Display account summary
 public void displayAccount() {
   System.out.println("Account Holder: " + accountHolderName +
            ", Bank: " + bankName +
            ", Balance: ₹" + accountBalance);
   System.out.println("");
 }
}
public class Main {
 public static void main(String[] args) {
   // Creating three bank accounts
```

```
BankAccount acc1 = new BankAccount("Amit", "ICICI", 10000);
  BankAccount acc2 = new BankAccount("Sneha", "HDFC", 15000);
  BankAccount acc3 = new BankAccount("Rahul", "SBI", 20000);
  // Transactions for acc1
  acc1.deposit(5000);
  acc1.withdraw(3000);
  acc1.displayAccount();
 // Transactions for acc2
  acc2.deposit(2000);
  acc2.withdraw(5000);
  acc2.displayAccount();
  // Transactions for acc3
  acc3.deposit(1000);
  acc3.withdraw(2500);
  acc3.displayAccount();
}
```

}

ASSIGNMENT:-2

```
🗾 Main1.java 🔀
  1 package Naveen;
  3 //Superclass
  4 class Animal {
  5● public void makeSound() {
         System.out.println("The animal makes a sound.");
  8 }
 10 //Subclass Dog
 11 class Dog extends Animal {
 12
     @Override
≙13⊖ public void makeSound() {
         System.out.println("The dog barks.");
 14
 15
 16 }
 17
 18 //Subclass Cat
 19 class Cat extends Animal {
 20
    @Override
△21● public void makeSound() {
         System.out.println("The cat meows.");
 22
 23
 24 }
 25
    //Main class to test the behavior
 26
 27 public class Main1 {
 28● public static void main(String[] args) {
         // Creating objects of each class
 29
 30
         Animal genericAnimal = new Animal();
 31
         Dog dog = new Dog();
         Cat cat = new Cat();
 32
 33
 34
         // Displaying sounds
 35
          genericAnimal.makeSound(); // Output: The animal makes a sound.
 36
         dog.makeSound();
                                      // Output: The dog barks.
 37
         cat.makeSound();
                                      // Output: The cat meows.
 38
 39
```

Output:-

```
Problems @ Javadoc Legaration Legaration Console X

<terminated > Main1 [Java Application] C:\Users\Naveen\.p2\pool\plugins\org.eclipse.justj.openjdk

The animal makes a sound.

The dog barks.

The cat meows.
```

Input:-

```
// Superclass
class Animal {
 public void makeSound() {
   System.out.println("The animal makes a sound.");
 }
}
// Subclass Dog
class Dog extends Animal {
 @Override
 public void makeSound() {
   System.out.println("The dog barks.");
 }
}
// Subclass Cat
class Cat extends Animal {
 @Override
 public void makeSound() {
   System.out.println("The cat meows.");
 }
}
// Main class to test the behavior
public class Main1 {
 public static void main(String[] args) {
   // Creating objects of each class
   Animal genericAnimal = new Animal();
   Dog dog = new Dog();
   Cat cat = new Cat();
   // Displaying sounds
   genericAnimal.makeSound(); // Output: The animal makes a sound.
   dog.makeSound();
                           // Output: The dog barks.
   cat.makeSound();
                          // Output: The cat meows.
 }
```