1. Write java Program for Consider a scenario, Bank is a class that provides functionality to get rate of interest. But, rate of

interest varies according to banks. For example, SBI, ICICI and AXIS banks could provide 8%,

7% and 9% rate of interest. (Method Overriding)

```
Program:
class Bank {
  public double getRateOfInterest() {
    return 0;
  }
}
class SBI extends Bank {
  @Override
  public double getRateOfInterest() {
    return 8.0;
  }
}
class ICICI extends Bank {
  @Override
  public double getRateOfInterest() {
    return 7.0;
  }
}
```

class AXIS extends Bank {

@Override

```
public double getRateOfInterest() {
    return 9.0;
}

public class Main {
    public static void main(String[] args) {
        Bank sbi = new SBI();
        Bank icici = new ICICI();
        Bank axis = new AXIS();

        System.out.println("SBI Bank Interest Rate: " + sbi.getRateOfInterest() + "%");
        System.out.println("ICICI Bank Interest Rate: " + icici.getRateOfInterest() + "%");
        System.out.println("AXIS Bank Interest Rate: " + axis.getRateOfInterest() + "%");
    }
}
```

## **Output:**

```
class Bank {
         public double getRateOfInterest() {
             return 0;
     }
   7 class SBI extends Bank {
         public double getRateOfInterest() {
             return 8.0;
     }
  14 class ICICI extends Bank {
         public double getRateOfInterest() {
             return 7.0;
     }
  21 class AXIS extends Bank {
         public double getRateOfInterest() {
             return 9.0;
     }
input
SBI Bank Interest Rate: 8.0%
ICICI Bank Interest Rate: 7.0%
AXIS Bank Interest Rate: 9.0%
... Program finished with exit code 0
Press ENTER to exit console.
```

- 2. Develop a JAVA code to display the balance. Include the following members:
- Design a class to represent a bank account.
- Data Members: Name of the depositor, Account number, Type of account(Savings/Current), Balance amount in the account(Minimum balance is Rs.500.00)
- Methods:
- 1. To read account number, Depositor name, Type of account.
- 2. To deposit an amount (Deposited amount should be added with it)
- 3. To withdraw an amount after checking balance(Minimum balance must be Rs.500.00

Note: Assume that balance amount = 10000

## **Test Cases**

- 1. 100, Raja, S, 8000
- 2. Raja, 100, S, 9000
- 3. 101, Rani, S, 12000
- 4. 102, Ragu, W, 8000
- 5. 103, Ravi, C, 10000

```
Program:
import java.util.Scanner;
class BankAccount {
  private String depositorName;
  private int accountNumber;
  private String accountType;
  private double balance;
  public void readAccountDetails() {
    Scanner scanner = new Scanner(System.in);
    System.out.print("Enter account number: ");
    accountNumber = scanner.nextInt();
    scanner.nextLine();
    System.out.print("Enter depositor name: ");
    depositorName = scanner.nextLine();
    System.out.print("Enter account type (Savings/Current): ");
    accountType = scanner.nextLine();
```

```
}
  public void deposit(double amount) {
    balance += amount;
    System.out.println("Amount deposited successfully.");
  }
  public void withdraw(double amount) {
    if (balance - amount < 500) {
      System.out.println("Insufficient balance. Minimum balance should be Rs.500.00");
    } else {
      balance -= amount;
      System.out.println("Amount withdrawn successfully.");
    }
  }
  public void displayBalance() {
    System.out.println("Account Details:");
    System.out.println("Depositor Name: " + depositorName);
    System.out.println("Account Number: " + accountNumber);
    System.out.println("Account Type: " + accountType);
    System.out.println("Balance: Rs." + balance);
 }
public class Main {
  public static void main(String[] args) {
```

}

```
BankAccount account = new BankAccount();
    account.readAccountDetails();
    account.deposit(8000);
    account.displayBalance();
    account.withdraw(1000);
    account.displayBalance();
    account.deposit(3000);
    account.displayBalance();
    account.withdraw(9000);
    account.displayBalance();
    account.deposit(10000);
    account.displayBalance();
  }
}
```

## **Output:**

```
Enter account number: 500
Enter depositor name: 8000
Enter account type (Savings/Current): 10000
Amount deposited successfully.
Account Details:
Depositor Name: 8000
Account Number: 500
Account Type: 10000
Balance: Rs.8000.0
Amount withdrawn successfully.
Account Details:
```