Question 5

Create a package my package, which has class to represent a bank account, includes following data members: Name of the depositor, account no, type of account and balance amount.

File 1:

{***The file below is to be saved in a separate folder, whose name matches the name of the package***}

```
package MyPAck;      // folder name should be MyPAck

public class Bank {
    long acc_no;
    double balance;
    String name;

    public Bank(long a, String n, double bal) {
        acc_no = a;
        name = n;
        balance = bal;
    }

    public void deposit(double amt) {
        balance += amt;
        System.out.println("Your balance is: " + balance);
    }

    public void withdraw(double amt) {
        if (balance - amt > 1000) {
            balance -= amt;
            System.out.println("Your balance is: " + balance);
        } else {
            System.out.println("Insufficient balance");
        }
    }

    public void display() {
        System.out.println("Account No: " + acc_no);
        System.out.println("Name of the customer: " + name);
        System.out.println("Balance: " + balance);
    }
}
```

File 2:

{***The below file should be saved outside the folder. The below file is actually the main file***}

```
import MyPAck.Bank;      //importing Bank class from the package MyPAck
import java.util.Scanner;

public class Account {
    public static void main(String args[]) {
        Scanner sc = new Scanner(System.in);
        int choice;
        long ac;
        String nm;
        double amt, id;

        System.out.println("Enter A/C No., Name and Initial Deposit:");
        ac = sc.nextLong();
        nm = sc.next();
        id = sc.nextDouble();

        Bank b1 = new Bank(ac, nm, id);

        while (true) {
            System.out.print("Menu\n1. Deposit\n2. Withdraw\n3. Display\n4. Exit\nEnter your choice: ");
            choice = sc.nextInt();

            switch (choice) {
                case 1: System.out.print("Enter the amount to be deposited: ");
                        amt = sc.nextDouble();
                        b1.deposit(amt);
                        break;

                case 2: System.out.print("Enter the amount to be withdrawn: ");
                        amt = sc.nextDouble();
                        b1.withdraw(amt);
                        break;

                case 3: b1.display();
                        break;

                case 4: sc.close();
                        System.exit(0);

                default: System.out.println("Invalid choice. Try again");
            }
        }
    }
}
```

Output:

```
Enter A/C No., Name and Initial Deposit:
100899 Vignesh 5000
Menu
1. Deposit
2. Withdraw
3. Display
4. Exit
Enter your choice: 2
Enter the amount to be withdrawn: 2500
Your balance is: 2500.0
Menu
1. Deposit
2. Withdraw
3. Display
4. Exit
Enter your choice: 1
Enter the amount to be deposited: 1200
Your balance is: 3700.0
Menu
1. Deposit
2. Withdraw
3. Display
4. Exit
Enter your choice: 3
Account No: 100899
Name of the customer: Vignesh
Balance: 3700.0
Menu
1. Deposit
2. Withdraw
3. Display
4. Exit
Enter your choice: 2
Enter the amount to be withdrawn: 3000
Insufficient balance
Menu
1. Deposit
2. Withdraw
3. Display
4. Exit
Enter your choice: 4
```