

9/1/24

Q Develop a Java program to develop a class Bank with current account & savings account.

```
import java.util.Scanner;

class account
{
    String name;
    int accno;
    String type;
    double balance;
    account (String name, int accno, String type, double balance)
    {
        this.name = name;
        this.accno = accno;
        this.type = type;
        this.balance = balance;
    }
    void deposit (double amount)
    {
        balance += amount;
    }
    void withdraw (double amount)
    {
        if ((balance - amount) >= 0)
            balance -= amount;
        else
            System.out.println("Insufficient Balance, cannot withdraw");
    }
    void display ()
    {
        System.out.println("Name: " + name + " Account No.: " + accno +
            " Type: " + type + " Balance: " + balance);
    }
}
```

class Savaract extends account

```
{
    private static double rate = 5;
    Savaract(String name, int accno, double balance)
```

```
{
    super(name, accno, "savings", balance);
}
```

void interest()

```
{
    interest balance balance + = balance * (rate)/100;
    System.out.println("Interest: " + Balance interest + balance balance);
}
```

class Curaract extends account

```
{
    private double minbal = 500;
    private double servicecharges = 50;
    Curaract(String name, int accno, double balance)
    {
        super(name, accno, "current", balance);
    }
```

void checkmin()

```
{
    if (balance < minbal)
    {
        System.out.println("Balance is less than the minimum  
balance, thus service charges imposed!" + servicecharges);
        balance = servicecharges;
        System.out.println("Balance is: " + balance);
    }
}
```

```
class bank {  
    public static void main (String args [])
```

Scanner sc = new Scanner(System.in);

```
System.out.println("Zuler name:");
```

```
System.out.println("Enter Account No. : ");
```

System.out.println("Enter Initial Balance:");

```
int ch;
```

```
account acc = new account(name, accno, type, balance);
```

```
curract cur = new curract(name, accno, balance);
```

4

4

System.out.println("Enter the choice:");

Switch (ch)

2

~~amt1 = sc.nextInt();~~

~~Sav. deposit (amt 1);~~

break;



```

    case 2: System.out.println("Enter the amount:");
             amt2 = sc.nextInt();
             sav.withdraw(amt2);
             break;

```

```

    case 3: sav.interest();
             break;

```

```

    case 4: sav.display();
             break;

```

```

    case 5: System.exit(0);

```

```

    default: System.out.println("Invalid input");
              break;

```

```

    }

```

```

}

```

```

else if

```

```

System.out.println("Menu\n 1. Deposit 2. Withdraw\n 3. Display");

```

```

System.out.println("Enter the choice:");

```

```

ch = sc.nextInt();

```

```

switch(ch)

```

```

{ case 1: System.out.println("Enter amount:");

```

```

    amt1 = sc.nextInt();

```

```

    cur.deposit(amt1);

```

```

    break;

```

```

    case 2: System.out.println("Enter amount:");

```

```

    amt2 = sc.nextInt();

```

```

    cur.withdraw(amt2);

```

```

    cur.checkMin();

```

```

    break;

```

```

    case 3: cur.display();

```

```

    break;

```

```

    case 4: System.exit(0);

```

```

}
}
}

```

Output: (Sanjeet P. Pandit / IBM22C5241)

Enter the name: ~~Sanjeet~~ Sanjeet

Enter the type: (Current/Savings):  
Current

Enter the account number:

1009

Enter the initial balance:

2000

Menu:

1. Deposit 2. Withdraw 3. Display

1

Enter the amount: 1000

Menu:

1. Deposit 2. Withdraw 3. Display

2.

Enter the amount: 500

Menu:

1. Deposit 2. Withdraw 3. Display

3.

Name: Sanjeet ~~Name: Sanjeet~~ acc no: 1009 type: current Balance: 2500.0

10/11/2021

Q (generic) (Additional)

(\*) output:

Popping integers from the stack:

5

4

3

2

1

Popping doubles from the stack:

5.5

4.4

3.3

2.2

1.1

~~16-1-24~~