

## LAB PROGRAM-5

Develop a Java program to create a class Bank ...  
update the balance

```
import java.util.*;  
class Account
```

```
{  
    String name, type;  
    int acc-no;  
    double amount;  
    Scanner in = new Scanner(System.in);
```

```
    void type(int choice)  
    {  
        if (choice == 1)  
            type = "Savings Account";  
        if (choice == 2)  
            type = "Current Account";  
    }
```

```
    void input()
```

```
{  
    System.out.println("Enter the Name, Account number &  
    name = in.next();  
    acc-no = in.nextInt();  
    amount = in.nextDouble();  
}
```

```
    void deposit()
```

```
{  
    System.out.println("Enter the amount to be deposited:");  
    double x = in.nextDouble();  
    amount = amount + x;  
}
```

void display()

```
{
    System.out.println("Name: "+name);
    System.out.println("Account number: "+acc-no);
    System.out.println("Type: "+type);
    System.out.println("Balance: "+amount);
}
```

class Savings-acc extends Account

```
{
    double a, cinterest;
    int r, t;
    Scanner in = new Scanner(System.in);
    void withdrawl()
    {
        System.out.println("Enter amount to be withdrawn:");
        double amtw = in.nextDouble();
        if (amtw <= amount)
            amount = amount - amtw;
        else
            System.out.println("Invalid amount");
    }
    void comp-interest()
    {
        System.out.println("Enter the rate and time:");
        r = in.nextInt();
        t = in.nextInt();
        a = amount * Math.pow(1 + (r * 0.01), t);
        cinterest = a - amount;
    }
    void display
    {
        super.display();
        System.out.println("Compound Interest after "+t+" years: "+ciinterest);
        System.out.println("Amount after "+t+" years: "+a);
    }
}
```



```

class Current_acc extends Account
{
    double min=10000;
    void input()
    {
        super.input();
    }
    void service_charge()
    {
        if (amount < min)
            amount = amount - 500;
    }
    void display()
    {
        super.display();
    }
}

class BankDemo
{
    public static void main (String args[])
    {
        Scanner in = new Scanner (System.in);
        System.out.println ("Choose type of account.");
        System.out.println ("1. Savings account.");
        System.out.println ("2. Current account.");
        int choice = in.nextInt();
        if (choice == 1)
        {
            Savings_acc b = Savings_acc();
            b.type(choice);
            b.input();
            System.out.println ("Do you want to deposit or withdraw? \n 1. Deposit \n 2. Withdraw \n");
        }
    }
}

```

```

int ch = in.nextInt();
if (ch == 1)
    b.deposit();
else if (ch == 2)
    b.withdraw();
else
    System.out.println("Invalid choice");
    b.comp-interest();
    b.display();
}
else if (choice == 2)
{
    Current-acc b = new Current-acc();
    b.type(choice);
    b.input();
    b.deposit();
    b.service-charge();
    b.display();
}
else
    System.out.println("Invalid choice");
}
}
    
```