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import java.util.*;

class Bank{

    Scanner sc = new Scanner(System.in);
}

class Account extends Bank{

    int A_no;

    String A_Name = new String();

    int A_accType;

    void getAccData(){
        System.out.println("Enter the Account Name : ");
        A_Name = sc.nextLine();

        System.out.println("Enter the Account Type : (1.for Savings account 2.Current account)");
        A_accType = sc.nextInt();

        System.out.println("Enter The Account number :");
        A_no = sc.nextInt();
    }
}

class sav_account extends account
{
    double a,cinterest;

    int r,t;

    Scanner in=new Scanner(System.in);

    void withdrawal()
    {
        System.out.println("Enter amount to be withdrawn:");
        double amtw=in.nextDouble();

        if(amtw<=amount)
            amount=amount-amtw;
    }
}

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        else
            System.out.println("You dont have enough money to withdraw");
    }
    void cmp_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: "+cinterest);
        System.out.println("Amount after " + t + " years: "+a);
    }
}
import java.util.*;
class Current_acc extends account
{
    double min=5000;
    void input()
    {
        super.input();
    }
    void service_charge()
    {
        if(amount<min)
            amount=amount-200;
    }
}

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    }

    void display()
    {
        super.display();
    }
}

import java.util.*;

class Bankdemo1
{
    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)
        {
            sav_account b=new sav_account();

            b.type(choice);

            b.input();

            System.out.println("*****\n1.Deposit.\n2.Withdraw\n*****
*****");

            int ch=in.nextInt();

            if(ch==1)
                b.deposit();

            else if(ch==2)
                b.withdrawal();

            else
                System.out.println("Invalid choice");
        }
    }
}

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        b.cmp_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 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");

}
}

```

OUTPUT:

```
C:\Users\hp\Desktop\inhrt\lab4>java Bankdemo1
*****Choose type of account*****
1.Savings account.
2.Current account.
1
Enter the Name,Account number and Balance:
www
34567
4500
*****
1.Deposit.
2.Withdraw
*****
2
Enter amount to be withdrawn:
450
Enter the rate and time:
3
5
Name:www
Account number:34567
Type:Savings Account
balance:4050.0
Compound Interest after 5 years: 645.0600009150003
Amount after 5 years: 4695.060000915
```

```
C:\Users\hp\Desktop\inhrt\lab4>java Bankdemo1
*****Choose type of account*****
1.Savings account.
2.Current account.
2
Enter the Name,Account number and Balance:
aaa
345678
34000
Enter the amount to be deposited:
8000
Name:aaa
Account number:345678
Type:Current Account
balance:42000.0
```

```
C:\Users\hp\Desktop\inhrt\lab4>
```