

```
accountmain - Notepad
File Edit Format View Help
import java.util.Scanner;
class Account
{
    String name,accnum,acctype;

    double balance;
    Account(){}
    /*
    if(a==1)
        acctype="savings";
    else if(a==2)
        acctype="current";
    */

    void input()
    {
        Scanner sc=new Scanner(System.in);

        System.out.println("enter name ,acc number");
        name=sc.next();
        accnum=sc.next();

        System.out.println("enter balance");
        balance=sc.nextInt();
    }

    void displaydetails()
    {
        System.out.println("\nname="+name+"\naccnumber="+accnum+"\nbalance="+balance+"\naccount type="+acctype);
    }

    void display()
    {
        System.out.println("balance="+balance);
    }
}
```

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```
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    System.out.println("\nname="+name+"\naccnumber="+accnum+"\nbalance="+balance+"\naccount type="+acc
void display()
{
    System.out.println("balance="+balance);
}

class curracct extends Account
{
    curracct()
    {
        accttype="current";
    }
    double minbal=5000;

    void check()
    {
        double penalty=100;
        if(balance<minbal)
        {
            balance=balance-penalty;
            System.out.println("penalty is imposed");
            System.out.println("balance="+balance);
        }
        else
        {
            System.out.println("penalty not imposed");
        }
    }

    void deposit()
{
```

```
}.
else
{
    System.out.println("penalty not imposed");
}
}

void deposit()
{
    Scanner sc=new Scanner(System.in);
    System.out.println("enter amt to deposit:");
    double amt=sc.nextDouble();
    balance=balance+amt;
}
}

class savacc extends Account
{
    savacc()
    {
        accttype="savings";
    }
    double ci;
    void calcompound(int n,int t)
    {
        ci=balance*(Math.pow((1+(0.2/n)),(n*t)));
        balance=balance+ci;
        System.out.printf("compound interest:%.2f",ci);
        System.out.printf("\nbalance:%.2f",balance);

    }
    void withdrawal(double amt)
    {
        double minbal=5000;
        if(balance<5000)
```

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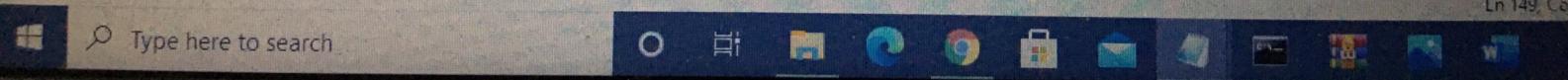
```
        }
void withdrawal(double amt)
{
    double minbal=5000;
    if(balance<5000)
        System.out.println("amount cant be withdrawn as min balance(5000) constraint will be violated");
    else
        balance=balance-amt;
}

void deposit()
{
    System.out.println("enter amount to deposit: ");
    Scanner sc=new Scanner(System.in);
    double depamt;
    depamt=sc.nextDouble();
    balance=balance+depamt;
    System.out.println("balance="+balance);
}
class AccountMain
{
    public static void main(String[] args)
    {
        Scanner sc=new Scanner(System.in);

        //Account A=new Account();

        System.out.println("enter 1 for savings account 2 for current account");
        int acctype=sc.nextInt();

        savacc s=new savacc();
        curracct c=new curracct();
```



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```
File Edit Format View Help
//Account A=new Account();

System.out.println("enter 1 for savings account 2 for current account");
int acctype=sc.nextInt();

savacc s=new savacc();
curracct c=new curracct();
if(acctype==1)
{
    System.out.println("enter your details: ");
    s.input();
    s.displaydetails();
    System.out.println("number of times interest to be compounded per unit t(n),time in years");

    int n=sc.nextInt();
    int t=sc.nextInt();
    s.calcompound(n,t);

    int n1=1;
    while(n1==1)
    {

        System.out.println("enter 1.deposit 2.withdrawl 3.exit");
        int w=sc.nextInt();
        if(w==1)
        {
            s.deposit();
        }
        else if(w==2)
        {
            System.out.println("enter the amount :");
            double amt=sc.nextDouble();

            s.withdrawal(amt);
        }
    }
}
```

```
    {
        System.out.println("enter 1.deposit 2.withdrawl 3.exit");
        int w=sc.nextInt();
        if(w==1)
        {
            s.deposit();
        }
        else if(w==2)
        {
            System.out.println("enter the amount :");
            double amt=sc.nextDouble();
            s.withdrawal(amt);
            s.display();
        }
        else
        {
            System.exit(0);
        }
    }

    else if(acctype==2)
    {
        System.out.println("enter your details: ");
        c.input();
        c.displaydetails();
        c.check();
        c.deposit();
        c.display();
    }
}
```