

fltriagh

```
import java.util.Scanner;
```

```
class Account
```

```
{
```

```
    String name, accnum, acctype;
```

```
    double balance;
```

```
    Account() {}
```

```
    /*
```

```
        if (a == 1)
```

```
            acctype = "savings";
```

```
        elseif (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 + "\naccnumbr
```

```
    =" + accnum + "\nbalance = " + balance +
```

```
    "\naccount type = " + acctype);
```

```
}
```

```
    void display()
```

```
{
```

```
    System.out.println("balance = " + balance);
```



```

}
class curraect extends Account

```

```

{
    curraect()

```

```

    {
        acctype = "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()

```

```

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

```

```

    System.out.println("enter amt to deposit");

```

```

    double amt = sc.nextDouble();

```

```

    balance = balance + amt;

```

```

}

```

```

}
class savacc extends Account

```

```

{

```

```

savaacc()
{
    acctype = "sava";
}

```

```

double ci;
void calc()

```

```

{
    ci = bal

```

```

    balance

```

```

    System

```

```

    System

```

```

    void w

```

```

    {
        dou

```

```

        if (b

```

```

        Syst

```

```

    else

```

```

}

```

```

void

```

```

{
    System

```

```

    Scann

```

```

    doubl

```

```

    depa

```

```

    bala

```



```
savacc()
```

```
{  
    acctype = "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 ("\n balance: %-.2f", balance);
```

```
}
```

```
void withdrawal (double amt)
```

```
{  
    double minbal = 5000;
```

```
    if (balance < 5000)
```

```
        System.out.println ("amount can't 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();
        curacct c = new curacct();
        if (accType == 1)
        {
            System.out.print("enter your details:");
            s.input();
            s.displaydetail();
            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();
            sc.calcompound(n, t);
            int n1 = 1;
            while (n1 == 1)
            {
                System.out.println("enter  
deposit & withdrawn & 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();
}
}
}

```