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Lab Programs

```
import java.util.*;
import java.lang.Math;
class Account
{   String name;
    int acctno;
    char type;
    double balance, dep;
    boolean chq;

void get (char c)
{   type = c;
    if (c == 's' || c == 'S')
    chq = false;
    Scanner sc = new Scanner (System.in);
System.out.println ("enter your name");
name = sc.nextLine();
System.out.println("enter account no");
acctno = sc.nextInt();
System.out.println("enter the current available
                    balance in your account");
balance = sc.nextDouble()
}
```

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```
Void putd()
{ System.out.println("Account details");
  System.out.println("Name : "+name);
  System.out.println("Account number :"+accno);
  System.out.println("Account type : "+type);
  System.out.println("balance : "+balance);
}

Void dep()
{   Scanner ss = new Scanner(System.in)
    System.out.println("enter the amount to be
                        deposited");
    dep = ss.nextDouble();
    balance = balance + dep;
    System.out.println("amount has been
                        deposited");
}

Void display()
{   System.out.println("Balance amount is "+balance);
}
```

```
Void check()
{   if (chq == false)
    System.out.println(" Cheque book is not
                        available");
    else
    System.out.println(" cheque book facility
                        is available");
    }
}

class Saving extends Account
{
    double rate;
    double c_with;
    int n;
    int ch;
    double amt, term, pa;
  void ci()
  {  Scanner sc = new Scanner(System.in);
     System.out.println(" enter principal
       deposit amount ");
     pa = ss.nextDouble();
     System.out.println(" enter the rate of interest");
       rate = ss.nextDouble();
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System.out.println("enter the term(years)");
term = ss.nextDouble();
System.out.println("enter the no. of times
interest is compounded annually");
n = ss.nextInt();
amt = pr * Math.pow((1+(rate/100)),
                    (n*term));
balance += amt;
System.out.println("Interest is compound &
    deposited ; balance is updated");
}

Void with_s()
{   Scanner ss = new Scanner(System.in);
System.out.println("enter the amount of
money to be withdrawn");
s_with = ss.nextdouble();
if (s_with > balance)
System.out.println("Insufficient balance");
else
{ balance = balance - s_with;
System.out.println("Money has been
                    withdrawn"); }
}
}
```

```
Class Current extends Account
{
    double c_with;
    double per;
    double min;
    Current()
    {   per = 100;
        min = 500;
    }

Void with_c()
{       Scanner xx = new Scanner(System.in);
    System.out.println("Enter the amount to
                        withdrawn");
    c_with = xx.nextDouble();
    if((c_with > balance)
    { System.out.println("Insufficient funds");
      return;
    }
    else
    { balance = balance - c_with;
      System.out.println("amount has been
                          withdrawn");}
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```
if(balance<min)
{
    System.out.println("Balance is below
the minimum threshold. time penalty
Charge =100/-");
    if(balance<pen)
System.out.println("Due to insufficient funds,
penalty charge will be deducted from account
after replenishing. Current balance is "+balance);
else
{
    balance = balance-pen;
System.out.println("penalty has been
deducted from account balance.
Current balance is "+balance);
}
}
class bank2
{
public static void main(String args[])
{
    int ch, chk;
Scanner sx = new Scanner(System.in);
System.out.println("Select your account
type -->1) Savings 2) current ");
```

```
int ch = sx.nextInt();
if (ch2 == 1)
{   savings s = new savings();
    s.get('s');
    do {
System.out.println("1. Deposit money \n
                    2. Calculate interest \n
                    3. Withdraw money \n
                    4. Display balance \n
                    5. Unsubscribe \n
                    6. Exit ");
System.out.println("enter your choice");
ch = sx.nextInt();
switch (ch)
{       case 1:
        s.dep();
        break;
        case 2:
        s.ci();
        break;
        case 3:
        s.with_s();
        break;
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case 4:
    s.display();
    break;
case 5:
    s.check();
    break;
case 6:
    break;

default:
System.out.println("wrong option");
break;
}
}while(ch!=6);
}
else if(ch==2)
{
    current c = new current();
    c.get('c');
    do { System.out.println("1. Deposit
                              money in
                          2. Cheque book
                          facility in
```

```
3. Withdraw money \n
4. Display balance \n
5. Exit ");
ch = sx.nextInt();
switch (ch)
{
        case 1:
        cs.dep();
        break;
        case 2:
        cs.check();
        break;
        case 3:
        cs.with_();
        break;
        case 4:
        cs.display();
        break;
        case 5:
            break;
        default: System.out.println("Wrong option");
            break;
    }
} while (ch != 5);
}
```

```
        else System.out.println("Wrong!");
    }
}
```