

```
import java.util.Scanner;  
abstract class Account {
```

```
    String custname;
```

```
    int accnum, acc-type;
```

```
    float balance = 0;
```

```
    Account(String a, int b, int c)
```

```
    {  
        custname = a;
```

```
        accnum = b;
```

```
        acc-type = c;
```

```
}
```

```
abstract void deposit( float d );
abstract void withdraw( float w );
abstract void display();
}
```

```
class curr_acct extends Account
```

```
static float minBalance = 1000;
```

```
static float penalty = 100;
```

```
curr_acct( String a, int b, int c )
```

```
{
```

```
super( a, b, c );
```

```
}
```

```
void checkMinBal()
```

```
{
```

```
if( balance < minBalance )
```

```
{
```

```
System.out.println( "Penalty will  
be deducted since balance is  
below minimum amount" );
```

```
balance -= penalty;
```

```
}
```

```
}
```

```
void deposit( float d )
```

```
{
```

```
balance += d;
```

```
System.out.println( "Amount added  
successfully" );
```

```
System.out.println("New balance  
balance);
```

3

```
void withdraw (float w)
```

d

```
if (balance < w)  
{
```

```
System.out.println ("Insufficient  
funds");
```

```
return;
```

4

```
balance -= w;
```

```
System.out.println ("Amount  
withdrawn successfully");
```

```
System.out.println ("New balan-  
ce : "+balance);
```

5

```
void display()
```

d

```
checkMinBal();
```

```
System.out.println ("Name :  
username + "\n Account Number  
+ account + "\n Account type : ");
```

```
currentBalance = "+balance
```

6

class Sav-Acc extends Account
static float interest = 5;
Sav-Acc(string a, int b, int c)

{
super(a, b, c);

}

void interest()
{
System.out.println("5% interest
has been credited to the
account");

balance += balance * (interest / 100.0);

}

void deposit(float d)
{

balance += d;

System.out.println("Amount added
successfully");

System.out.println("New balance:
" + balance);

}

void withdraw(float w)
{

if (balance < w)
{

System.out.println("Insufficient
funds");

return;

}

```
balance -= w;
System.out.println("Amount
withdrawn successfully");
System.out.println("New Balance:
+ balance);
```

y

```
void display()
```

{

```
interest();
```

```
System.out.println("Name : "
+ custname + " Account Number : "
+ accnum + " Account type : "
+ Savings + " Balance : " + bal)
```

g

y

```
public class BankMain
```

```
public static void main(String
args[])
```

{

```
Scanner scr = new Scanner(System
in);
Account a3;
```

```
System.out.println("Enter name
String s = scr.next());
```

```
System.out.println("Enter
Account number");
```

```
int a = scr.nextInt();
```

System.out.println ("Enter account
type in 1. Savings Account in 2.
Current Account");

int b = sc.nextInt();

if (b == 1)

{

Sav-acct a1 = new Sav-acct(s, a, b);
a3 = a1;

}

else

{

Cur-acct a2 = new Cur-acct(s, a);
a3 = a2;

}

for (j; j <

)

System.out.println ("In 1. withdraw
In 2. deposit In 3. Account Details
4. Exit");

int ch = sc.nextInt();

switch (ch)

{

case 1:

System.out.println ("Enter amount");

float w = sc.nextFloat();

a3.withdraw (w);

break;

case 2:

```
System.out.println ("Enter amount");
float d = sc.nextInt();
a3.deposit(d);
break;
case 3:
    a3.display ();
    break;
case 4:
    return;
```

4

}

3

4