

## Wk8prog2 - Notepad

```
File Edit Format View Help
import java.util.Scanner;
abstract class Account
{
String cust_name;
String acc_no;
String acc_type;
double balance;
double min_bal = 1000.0;

Account (String cust_name, String acc_no, String acc_type, double balance) {
this.cust_name=cust_name;
this.acc_no=acc_no;
this.acc_type=acc_type;
this.balance=balance;
}
abstract void deposit(double amount);
abstract void display();
abstract void withdrawal(double amount);
}

class Curr_acct extends Account
{
double penalty=100.0;
Curr_acct(String cust_name, String acc_no, String acc_type, double balance)
{
super(cust_name, acc_no, acc_type, balance);
System.out.println("Name of the customer: "+cust_name);
System.out.println("Account Number accno: "+acc_no);
System.out.println("Account type: "+acc_type);
System.out.println("Balance: "+balance);
}

void deposit(double amount)
{
this.balance = this.balance + amount;
}

void withdrawal(double amount)
{
this.balance = this.balance - amount;
imposepenalty();
System.out.println("The current balance is "+balance); I
}
```

## Wk8prog2 - Notepad

```
File Edit Format View Help
this.balance = this.balance-amount;
imposepenalty();
System.out.println("The current balance is "+balance);
}
void imposepenalty()
{
if(this.balance<min_bal)
{
this.balance=this.balance-penalty;
System.out.println("The balance amount is insufficient, the penalty imposed = 100Rs");
}
}

void display()
{
System.out.println("Balance is: " + this.balance);
}

class Sav_acct extends Account
{
Sav_acct(String cust_name,String acc_no,String acc_type,double balance)
{
super(cust_name,acc_no,acc_type,balance);
System.out.println("Name of the customer: "+cust_name);
System.out.println("Account Number accno: "+acc_no);
System.out.println("Account type: "+acc_type);
System.out.println("Balance: "+balance);
}

void deposit(double amount)
{
this.balance = this.balance+amount;
System.out.println("The Balance is "+this.balance);
}

void interest()
{
int rate=10,time=1;
float ci=(float)(this.balance*Math.pow(1+rate/100.0,time)-this.balance);
System.out.println("The interest amount added to balance is "+ci);
}
```

## Wk8prog2 - Notepad

```
File Edit Format View Help
int rate=10,time=1;
float ci=(float)(this.balance*Math.pow(1+rate/100.0,time)-this.balance);
System.out.println("The interest amount added to balance is "+ci);
this.balance=this.balance+ci;
System.out.println("The Balance is "+this.balance);
}

void withdrawal(double amount)
{
this.balance=this.balance-amount;
System.out.println("The current balance is "+balance);
}
void display()
{
System.out.println("Balance is: " +this.balance);
}
}

class Wk8prog2 {
public static void main(String[] args) {
Scanner xx = new Scanner(System.in);
double amount;
int flag = 0;
while(flag == 0){
System.out.println("Enter the type of Account:\n1:Current account\n2:Savings account\n3:Exit");
int choice=xx.nextInt();
switch(choice){
case 1:
System.out.println("\nCurrent account:\n");
System.out.println("Enter the name of account holder");
String f=xx.next();
System.out.println("Enter the account number");
String g=xx.next();
System.out.println("Enter the balance amount");
double h=xx.nextDouble();

Curr_acct c = new Curr_acct(f,g,"current",h);
int flag1 = 0;
while( flag1 == 0)
{
<
```

## WISprog2 - Notepad

File Edit Format View Help

```
double h=xx.nextDouble();
```

```
Curr_acct c = new Curr_acct(f,g,"current",h);
```

```
int flag1 = 0;
```

```
while( flag1 == 0)
```

```
{System.out.println("Enter your choice\n1:Deposit amount\n2:Display Balance\n3:Withdraw\n4:Exit");}
```

```
int choice1= xx.nextInt();
```

```
switch (choice1)
```

```
{
```

```
case 1:
```

```
System.out.println("Enter amount to be deposited:");
```

```
amount = xx.nextDouble();
```

```
c.deposit(amount);
```

```
break;
```

```
case 2:
```

```
c.display();
```

```
break;
```

```
case 3:
```

```
System.out.println("Enter amount you want to withdraw:");
```

```
amount = xx.nextDouble();
```

```
c.withdrawal(amount);
```

```
break;
```

```
default:
```

```
flag1 = 1;
```

```
}
```

```
}
```

```
break;
```

```
case 2:
```

```
System.out.println("\nSavings account:\n");
```

```
System.out.println("Enter the name of account holder");
```

```
String p=xx.next();
```

```
System.out.println("Enter the account number");
```

```
String q=xx.next();
```

```
System.out.println("Enter the balance amount");
```

```
double r=xx.nextDouble();
```

```
Sav_acct s = new Sav_acct(p,q,"Savings",r);
```

```
int flag2 = 0;
```

```
while(flag2 == 0)
```

```
{
```

```
System.out.println("Enter your choice\n1:Deposit amount\n2:Display Balance and Interest\n3:Withdraw\n4:Exit");
```

Type here to search



Wk8prog2 - Notepad

File Edit Format View Help

```
{}
break;

case 2:
System.out.println("\nSavings account:\n");
System.out.println("Enter the name of account holder");
String p=xx.next();
System.out.println("Enter the account number");
String q=xx.next();
System.out.println("Enter the balance amount");
double r=xx.nextDouble();
Sav_acct s = new Sav_acct(p,q,"Savings",r);
int flag2 = 0;
while(flag2 == 0)
{
System.out.println("Enter your choice\n1:Deposit amount\n2:Display Balance and Interest\n3:Withdraw\n4:Exit");
int choice2 = xx.nextInt();
switch (choice2)
{
case 1:System.out.println("Enter amount to be deposited:");
amount = xx.nextDouble();
s.deposit(amount);
break;
case 2:
s.display();
s.interest();
break;
case 3:
System.out.println("Enter amount you want to withdraw:");
amount = xx.nextDouble();
s.withdrawal(amount);
break;
default:
flag2 =1;
}
}
break;
default:flag=1;
}
```

C:\Users\AKSHAY RASTOGI\Desktop>java Wk8prog2

C:\Users\AKSHAY RASTOGI\Desktop>java Wk8prog2

Enter the type of Account:

1:Current account

2:Savings account

3:Exit

2

Savings account:

Enter the name of account holder

Akshay

Enter the account number

21432154

Enter the balance amount

10000

Name of the customer: Akshay

Account Number accno: 21432154

Account type: Savings

Balance: 10000.0

Enter your choice

1:Deposit amount

2:Display Balance and Interest

3:Withdraw

4:Exit

1

Enter amount to be deposited:

1500

The Balance is 11500.0

Enter your choice

1:Deposit amount

2:Display Balance and Interest

3:Withdraw

4:Exit

3

Enter amount you want to withdraw:

500

The current balance is 11000.0

Enter your choice

1:Deposit amount

2:Display Balance and Interest

CH. Computer Application - Information Technology - 2013-2014

1:Deposit amount

2:Display Balance and Interest

3:Withdraw

4:Exit

2

Balance is: 11000.0

The interest amount added to balance is 1100.0

The Balance is 12100.0

Enter your choice

1:Deposit amount

2:Display Balance and Interest

3:Withdraw

4:Exit

4

Enter the type of Account:

1:Current account

2:Savings account

3:Exit

1

Current account:

Enter the name of account holder

Ramu

Enter the account number

124214541

Enter the balance amount

2000

Name of the customer: Ramu

Account Number accno: 124214541

Account type: current

Balance: 2000.0

Enter your choice

1:Deposit amount

2:Display Balance

3:Withdraw

4:Exit

1

Enter amount to be deposited:

1900

Enter your choice

Enter the balance amount

2000

Name of the customer: Ramu

Account Number accno: 124214341

Account type: current

Balance: 2000.0

Enter your choice

1:Deposit amount

2:Display Balance

3:Withdraw

4:Exit

1

Enter amount to be deposited:

1900

Enter your choice

1:Deposit amount

2:Display Balance

3:Withdraw

4:Exit

3

Enter amount you want to withdraw:

2500

The current balance is 1900.0

Enter your choice

1:Deposit amount

2:Display Balance

3:Withdraw

4:Exit

3

Enter amount you want to withdraw:

500

The balance amount is insufficient, the penalty imposed = 100Rs

The current balance is 700.0

Enter your choice

1:Deposit amount

2:Display Balance

3:Withdraw

4:Exit