

Lab 5 programs:

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

```
class account
```

```
{
```

```
String name;
```

```
int accno;
```

```
String type;
```

```
double balance;
```

```
account (String name, int accno, String type, double balance)
```

```
{
```

```
this.name = name;
```

```
this.accno = accno;
```

```
this.type = type;
```

```
this.balance = balance;
```

```
}
```

```
void deposit (double amount).
```

```
{
```

```
balance = amount;
```

```
.
```

~~```
void withdraw (double amount) .
```~~~~```
{
```~~~~```
if ((balance - amount) >= 0)
```~~~~```
{
```~~~~```
balance = amount
```~~~~```
else
```~~~~```
{
```~~~~```
System.out.println ("Insufficient balance, can't withdraw");
```~~~~```
}
```~~

void display ()

{

System.out.println ("Insufficient name : " + name + " " + accno +  
" type : " + type " balance : " + balance);

}

}

class SavAcct extends Account

{

private static double rate = 5;

SavAcct (String name, int accno, double balance) .

{

super (name, accno, "savings", balance);

}

void interest ()

{

balance = "balance" (rate) / 100 ;

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

}

class CurAcct extends Account

{

private double minBal = 500 ;

private double serviceCharge = 50 ;

CurAcct (String name, int accno, double balance) .

{

super (name, accno, "current", balance);

}

void checkMin()

{

If (balance < minBal).

{

System.out.println ("balance is less than min balance, service charges imposed : " + servicecharges);

balance -= servicecharges;

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

}

}

}

class accounts Main

{

public static void main (String a[]).

{

Scanner s = new Scanner (System.in);

System.out.println ("Enter the name : ");

String name = s.next();

System.out.println ("enter the type (current / savings) : ");

String type = s.next();

System.out.println ("enter the account number : ");

int accno = s.nextInt();

System.out.println ("Enter the initial balance : ");

double balance = s.nextDouble();

int ch;

double balance = s.nextDouble(); amt1, amt2;

~~account acc = new account (name, accno, type, balance);~~

~~savacct sa = new Savacct (name, accno, balance);~~

~~curAcct ca = curAcct (name, accno, balance);~~

while (true)

{

if (acc.type.equals ("savings"))

{

System.out.println ("1. menu 1. deposit 2. withdraw

3. Compute interest. ~~4. Exit~~ ");

t

System.out.println("enter the choice : ");

ch = s.nextInt();

switch(ch){

}

case 1: System.out.println("enter amt : ");

amt1 = s.nextInt();

sa.deposit(amt1);

break;

case 2: System.out.println("enter amt : ");

amt2 = s.nextInt();

sa.withdraw(amt2);

break;

case 3: sa.interest();

break;

default: System.out.println("invalid");

break;

y

y

else

{

System.out.println("1-deposit 2-withdraw 3-display");

System.out.println("enter choice");

ch = s.nextInt();

switch(ch){

}

case 1: System.out.println("enter amt");

amt1 = s.nextInt();

ch.deposit(amt1);

break;

case 2: System.out.println("enter amt");

amt2 = s.nextInt();

ca withdraw (amt ?);

ca. check (n ?);

break;

ca. 3. display();

break;

default : System.out.println("invalid");

break;

3

4

5

OUTPUT:

Enter customer name : Ramesh

Enter account number : 1

Enter initial balance: 45000

Select an option :

1. Deposit to Savings Account
2. Compute and Deposit Interest for Savings Account
3. Withdraw from Savings Account
4. Deposit to Current Account
5. Withdraw from Current Account
6. Display Balances
0. Exit

Enter your choice : 2

Amount deposited • Current balance : 48375.0

Interest computed and deposited • Current balance : 48375 -

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Select an option :

1. Deposit to Savings Account
2. Compute and Deposit Interest for Savings Account
3. Withdraw from Savings Account
4. Deposit to Current Account
5. Withdraw from Current Account

6. Display Balances

0. Exit

Enter your choice : 3

Enter the amount to withdraw from Savings Account : 4500

Amount withdrawn successfully. Current balance : 3375

Select an option :

1. Deposit to Savings Account
2. Compute and deposit Interest for Savings Account
3. Withdraw from Savings Account
4. Deposit to Current Account
5. Withdraw from Current Account
6. Display balances
0. Exit

Enter your choice : 3

Enter the amount to withdraw from Savings Account : 3000

Amount withdrawn successfully. Current balance : 375

Select an option :

1. Deposit to Savings Account
2. Compute and deposit Interest for Savings Account
3. Withdraw from Savings Account
4. Deposit to Current Account
5. Withdraw from Current Account
6. Display balances
0. Exit

Enter your choice : 6

Savings Account details :

Account type : Savings

Printed Customer Name : Ramsha

Account Number : 1