

Bank

```
import java.util.Scanner;  
import java.lang.Math;
```

2 :

class Account {

```
String customer_name = new String();  
String account_type = new String();  
int account_number;
```

}

class Current extends Account {

```
int balance;  
Scanner s = new Scanner(System.in);
```

Current (String current) {

```
System.out.println("Enter customer name and account  
number:");
```

```
customer_name = s.next();
```

```
account_number = s.nextInt();
```

```
account_type = type;
```

```
balance = 0;
```

}

void deposit() {

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

```
balance += s.nextInt();
```

~~if (balance < 1000) {~~

~~System.out.println("500 INR service charge.");~~

~~Account balance falls below minimum");~~

~~balance -= 500;~~

3 } }

void display () {

```
System.out.println("Name: " + customer_name + " " + account_number + "\n"  
"Account type: " + account_type + "\n" + "Balance: " + balance);
```

3

```
void withdraw () {  
    int with;  
    System.out.println ("Enter the amount to withdraw");  
    with = s.nextInt();  
    if (with > balance) {  
        System.out.println ("Balance is less than withdrawal  
amount!");  
    }  
    else {  
        balance -= with; }  
    if (balance < 1000) {  
        System.out.println ("500 INR service charge. Account  
balance falls below minimum required balance  
of 1000 INR");  
        balance -= 500; }  
}
```

```
class Savings extends Account {  
    double balance;  
    Scanner s = new Scanner (System.in);  
    Savings (String type) {  
        System.out.println ("Enter customer name and account  
number:");  
        customerName = s.nextLine();  
        accountType = type;  
        balance = 0; }  
}
```

```
void deposit () {  
    System.out.println ("Enter amount to deposit: ");  
    balance += s.nextInt(); }  
}
```

```
void display () {  
    System.out.println ("\nName: " + customerName + "\nAccount number: " + ac  
Account type: " + accountType + "\nBalance: " + balance + "\n", customerName, ac  
}
```

account_number, account_type, balance);

withdraw();

void withdraw
int with;

withdraw

System.out.println("Enter the amount to
withdraw:");

with = s.nextInt();

if (with > balance) {

System.out.println("Balance is less than withdrawal.");

} else {

balance -= with; }

interest
done

void interest() {

int years, no;

double rate, total;

System.out.print("Enter time, percentage and
no. of years interest per year:");

years = s.nextInt(); rate = s.nextDouble();

no = s.nextInt();

total = balance * ((month * pow((1 + (rate / 100) / 12), (no * years)))
- balance);

balance += total;

SOP("Interest is " + total);

}

class Bank {

psvm {String L> ans() {

int choice & n=0;

String type = new String();

Scanner s = new Scanner(System.in);

SOP(1:create current account 2:create savings account");

choice = s.nextInt();

switch (choice) {

case 1: type = "Current";

Current C1 = new Current (type);

while (n == 0) {

SOP ("Int: Deposit" In 2: Withdraw In 3: Display Int: Exit In");

choice = S1.nextInt();

switch (choice) {

case 1: (C1.deposit());

C1.display();

break;

case 2: (C1.withdraw());

C1.display();

break;

case 3: C1.display();

break;

case 4: n = 1;

break;

default: SOP ("Enter a valid input");

break;

}

break;

case 2: type = "Savings";

Savings S1 = new Savings (type);

while (n == 0)

SOP ("Int: Deposit In 2: Withdraw In 3: Display In 4: Check Interest
In 5: Exit In");

choice = S1.nextInt();

switch (choice) {

case 1: S1.deposit();

S1.display();

break;

case 2: S1.withdraw();

S1.display(); break;

Case 3: si.display();
break;

Case 4: si.input();
si.display();
break;

Case 5: n=1;
break;

default: sop("Enter a valid Input!");
break;

}

}

}

break;

}

}

}

}

Output.

- 1: Create current account
- 2: Create Savings account

2

Enter customer name and account number:

Arv

123

- 1: Deposit
- 2: withdraw
- 3: Display
- 4: Check Interest

T: Exit

1

Enter the amount to deposit:

500

Name: arv
Account number: 123
Account type: Savings
Balance: 500

- 1: Deposit
- 2: Withdraw
- 3: Check Interest Display
- 4: Check Interest
- 5: Exit

4

Enter time in years, percentage of interest and
number of times per year:

1 8 2

Interest is = 840.8000007

Name: arv
Account number: 123
Account type: Savings
Balance: 500.80

~~Salutation~~

```
1>Create current account
2>Create savings account
2
Enter customer name and account number:
arv
123

1:Deposit
2:Withdraw
3:Display balance
4:Check interest
5:Exit
1
Enter the amount to deposit:
500

Name: arv
Account number: 123
Account type: Savings
Balance: 500.00

1:Deposit
2:Withdraw
3:Display balance
4:Check interest
5:Exit
4
Enter time in years, percentage of interest and number of times per year:
1 8 2
Interest is= 40.80000000000007
```

```
1
Enter the amount to deposit:
500

Name: arv
Account number: 123
Account type: Savings
Balance: 500.00

1:Deposit
2:Withdraw
3:Display balance
4:Check interest
5:Exit
4
Enter time in years, percentage of interest and number of times per year:
1 8 2
Interest is= 40.80000000000007

Name: arv
Account number: 123
Account type: Savings
Balance: 540.80
```

```
1:Create current account
2:Create savings account
1
Enter customer name and account number:
arv 123

1:Deposit
2:Withdraw
3:Display balance
4:Exit
1
Enter the amount to deposit:
8000

Name: arv
Account number: 123
Account type: Current
Balance: 8000
1:Deposit
2:Withdraw
3:Display balance
4:Exit
2
Enter the amount to withdraw:
7700
500 INR service charge. Account balance falls below minimum required balance 1000 INR
```

```
Name: arv
Account number: 123
2:Withdraw
3:Display balance
4:Exit
1
Enter the amount to deposit:
8000

Name: arv
Account number: 123
Account type: Current
Balance: 8000
1:Deposit
2:Withdraw
3:Display balance
4:Exit
2
Enter the amount to withdraw:
7700
500 INR service charge. Account balance falls below minimum required balance 1000 INR
```

```
Name: arv
Account number: 123
Account type: Current
Balance: -200
1:Deposit
2:Withdraw
3:Display balance
4:Exit
4
```