

```
import java.util.Scanner;
class account
```

```
{
    private String name;
    private long account-number;
    private int account-type;
    double balance;
    void set-data()
```

```
{
    Scanner ss = new Scanner (System.in);
    System.out.println ("Enter Account Holder Name");
    name = ss.next();
    System.out.println ("Enter the account Number");
    account-number = ss.nextLong();
    System.out.println ("Choose the account type: 1. Savings account 2. current account");
    account-type = ss.nextInt();
```

```
}
void get-data()
```

```
{
    System.out.println ("Account Holder: " + name);
    System.out.println ("Account Number: " + account-number);
```

```
int returns-account-type()
```

```
{
    return account-type;
```

```
}
```

```
}
```

class Savings extends account

{

Scanner ss = new Scanner(System.in);

double amount;

void get-sav-balance()

{

System.out.println("Enter the Amount deposite in your savings Account");

amount = ss.nextDouble();

balance += amount;

}

void display-sav-balance()

{

System.out.println("Balance = " + balance);

}

void compute-sav-interest()

{
System.out.println("In ~~next~~ Calculating Compound Interest");

System.out.println("Enter annual interest rate:");

float rate = ss.nextFloat();

System.out.println("Enter time in year:");

float time = ss.nextFloat();

System.out.println("Enter principle:");

float principle = ss.nextFloat();

float CI = (float) (principle * (Math.pow((1 + rate / (12 * 100)), (12 * time))) - principle);


```

System.out.println("The Compound Interest is : " + CI);
balance = balance + CI;
System.out.println("Balance after adding Interest : " + balance);
}

```

```

void withdraw-sav()
{

```

```

    System.out.println("Enter the amount to be withdrawn");
    amount = ss.nextDouble();
    balance = balance - amount;
}
}

```

```

class current-extend account
{

```

```

    Scanner ss = new Scanner(System.in);
    double amount;
    final double min-balance = 500;
    void get-cur-balance()
    {

```

```

        System.out.println("Enter the amount to be placed in your current account");
        amount = ss.nextDouble();
        balance += amount;
    }

```

```

    void display-cur-balance()
    {

```

```

        System.out.println("Balance = " + balance);
    }
}

```

```

void compute - cur - service - charge()
{
    if (balance < min - balance)
    {
        System.out.println ("service chrg. of $100 shall be levied");
        balance = balance - 100;
    }
    else
    {
        System.out.println ("Minimum balance is Maintained");
    }
}

void withdraw - cur ()
{
    System.out.println ("Enter the amount to be withdrawn");
    amount = ss.next Double ();
    balance = balance - amount;
}

class bank
{
    public static void main (String args [])
    {
        Scanner ss = new Scanner (System.in);
        int type;
    }
}

```



```
System.out.println ("Enter the bank details");
```

```
account acc = new account();
```

```
acc.set-data();
```

```
type = acc.return-account-type();
```

```
if (type == 1)
```

```
{  
    System.out.println ("SAVINGS ACCOUNT");
```

```
    acc.get-data();
```

```
    savings sav = new savings();
```

```
    sav.get-sav-balance();
```

```
    sav.display-sav-balance();
```

```
    System.out.println ("Do you want to calculate Interest on  
    next=1 or if yes press 1 else 0");
```

```
    int ch = ss.nextInt();
```

```
    if (ch == 1)
```

```
{  
    sav.compute-sav-interest();
```

```
}  
    sav.display-sav-balance();
```

```
    sav.withdrawal-sav();
```

```
    sav.display-sav-balance();
```

```
}  
    if (type == 2)
```

```
{  
    System.out.println ("CURRENT ACCOUNT");
```

```
    acc.get-data();
```

```
current cur = new current();  
cur.get - cur - balance();  
cur.display - cur - delree();  
cur.complete - cur - service - charges();  
cur.display - cur - delree();  
cur.withdraw - cur();  
cur.display - cur - delree();
```

}

}

}