

## Bank

```

import java.util.Scanner;
import java.lang.Math;
class Account
{
    String name, type, acno;
    double balance;
    void deposit();
    {
        Scanner get = new Scanner(System.in);
        double depo;
        System.out.println("Enter the deposit-");
        depo = get.nextDouble();
        balance = balance + depo; }
    void withdraw()
    {
        Scanner get = new Scanner(System.in);
        double withdraw;
        System.out.println("Enter the amount to withdraw: (< " + balance + ")");
        withdraw = get.nextDouble();
        balance = balance - withdraw;
        System.out.println("Balance : " + balance); }
}

class Curr_acc extends Account
{
    boolean cheque = true; double intr = 1;
    void display() { System.out.println("Balance : " + balance); }
    void create()
    {
        Scanner get = new Scanner(System.in);
        System.out.println("Name : ");
        name = get.next();
        type = "current";
        System.out.println("Account No : "); acno = get.next();
    }
}

```

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```

System.out.println("Balance : "); balance = get.nextDouble();
}

```

```

void calcInt()

```

```

{ double interest; int time;

```

```

Scanner get = new Scanner(System.in);

```

```

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

```

```

time = get.nextInt();

```

```

interest = balance * Math.pow((1 + intr/100), time) - balance;

```

```

System.out.println("Interest: " + interest);

```

```

balance = balance + interest;

```

```

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

```

```

void check()

```

```

{ System.out.println("Minimum Balance : " + 5000);

```

```

if (balance < 5000)

```

```

{ System.out.println("Penalty is imposed please deposit minimum"
+ (5000 - balance + 200) + "Rs\nRs 200 is service charge");

```

```

deposit(); balance = balance - 200; }

```

```

else

```

```

{ System.out.println("Balance : " + balance + " safe"); }

```

```

}

```

```

}

```

```

class Sav_aact extends Account

```

```

{ double intr = 7;

```

```

boolean cheque = false;

```

```

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

```

```

void create()

```

```

{ Scanner get = new Scanner(System.in);

```

```

System.out.println("Name : ");
    name = get.next();
    type = "savings";
    System.out.println("Balance : "); balance = get.nextDouble();
    System.out.println("Account No : "); accno = get.next();
}

```

```

void calcInt()

```

```

{ double interest; int time;
  Scanner get = new Scanner(System.in);
  System.out.println("Enter time : "); time = get.nextInt();
  interest = balance * Math.pow((1 + int / 100), time) - balance;
  System.out.println("Interest : " + interest);
  balance = balance + interest;
  System.out.println("Balance : " + balance);
}

```

```

}

```

```

class Bank

```

```

{ public static void main(String args[])
{ Scanner get = new Scanner(System.in);
  String type;
  Sav-act accs = new Sav-act();
  Curr-act accr = new Curr-act();
  System.out.println("Enter type of account : (current/savings)");
  type = get.next();
  if (type.equals("savings"))
  { accs.create(); }
  else if (type.equals("current"))
  { accr.create(); }
}
}

```

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```
int ch;
```

```
do
```

```
{ System.out.println("1. Deposit 2. Display Balance 3. Deposit  
Interest 4. Withdraw 5. Check 6. cheque Book (under development)  
7. Exit"); ch = getNextInt();
```

```
switch (ch)
```

```
{ case 1: if (type.equals("savings")) {  
accr.deposit();
```

```
else
```

```
accr.deposit();
```

```
break;
```

```
case 2: if (type.equals("savings")) { accr accr.display(); }  
else { accr.display();  
break;
```

```
case 3: if (type.equals("savings")) { accr.calcInt();  
else
```

```
{ System.out.println("This account does not have provision");  
break;
```

```
case 4: if (type.equals("savings"))  
System.out.println accr.withdraw();  
else { accr.withdraw(); }  
break;
```

```
case 5: if (type.equals("savings"))  
{ System.out.println("This account does not have this provision"); }  
else { accr.check(); }  
break;
```

```
case 6: if (type.equals("savings"))
```

```
{ System.out.println("This account not have provision");
```

```
else
```

```
System.out.println("This account has provision"); }
```

```
break;
```

```
default: if (ch != 'T')
```

```
System.out.println("Enter valid option");
```

```
}
```

```
} while (ch != 'T');
```

```
}
```

```
}
```