Main.java

```java
/*****************************************************************************
Develop a Java program to create a class Bank that maintains two kinds of account
*****************************************************************************/
import java.util.Scanner;
import java.lang.Math;
class bank{
    String name;
    int acc_no;
    float bal, si;
    Scanner scan = new Scanner(System.in);

    void accept(){
        System.out.println();
        System.out.println("Enter the name of the account holder: ");
        name = scan.nextLine();
        System.out.println("Enter account number: ");
        acc_no = scan.nextInt();
        System.out.println("Enter account balance: ");
        bal = scan.nextFloat();
    }

    void display(){
        System.out.println();
        System.out.println("Details-");
        System.out.println("Name: "+name+"\nAccount number: "+acc_no+"\nBalance: "+bal);
    }

    void deposit(){
        System.out.println();
            System.out.println("Enter the amount to be deposited: ");
            int amt = scan.nextInt();
            bal = bal + amt;
            System.out.println("Available balance= "+bal);
    }
}
```

```
36
37  class savings extends bank{
38
39      void cheque(){
40          System.out.println("\nNo cheque service");
41      }
42
43      void simple_interest(){
44          System.out.println();
45          Scanner scan = new Scanner(System.in);
46          System.out.println("\nEnter Rate of interest: ");
47          int r = scan.nextInt();
48          System.out.println("Enter the number of times interest applied per time period");
49          int n = scan.nextInt();
50          System.out.println("Enter the time elapse: ");
51          int t = scan.nextInt();
52          si = bal*(1+r/n);
53          System.out.println("Simple interest = Rs "+(Math.pow(si, n*t)));
54      }
55
56      void withdrawal(){
57          float amount;
58          System.out.println("No minimun balance required");
59          System.out.println("Enter the amount to be withdrawn");
60          amount = scan.nextFloat();
61          if(amount>bal)
62              System.out.println("Balance is insufficient");
63          else{
64              bal = bal - amount;
65              System.out.println(amount + " withdrawn");
66              System.out.println("Available balance= " + bal);
67          }
68      }
69  }
70
71  class current extends bank{
```

```
71  class current extends bank{
72      float service_charge = 100;
73
74      void cheque(){
75          System.out.println("\nCheque service available");
76      }
77
78      void withdrawal(){
79          float amount;
80          System.out.println("Minimun balance = Rs 1000.00");
81          System.out.print("Enter the amount to be withdrawn: ");
82          amount = scan.nextFloat();
83          if(amount > bal)
84              System.out.println("Balance is insufficient");
85          else{
86          bal= bal-amount;
87          if(bal<1000){
88              bal = bal - service_charge;
89              System.out.println("Service charge of Rs "+ service_charge + " is added.");
90              System.out.println("Available balance= " + bal);
91          }
92          else{
93              System.out.println(amount + " withdrawn");
94              System.out.println("Available balance= " + bal);
95          }
96          }
97      }
98  }
99
100 public class Main
101 {
102     public static void main(String[] args) {
103
104         savings obj1 = new savings();
105         current obj2 = new current();
```

```
106
107         System.out.println("1. Savings");
108         System.out.println("2. Current");
109         System.out.print("Enter your choice: ");
110         Scanner scan = new Scanner(System.in);
111         int ch = scan.nextInt();
112         switch(ch){
113             case 1: obj1 = new savings();
114                     obj1.accept();
115                     obj1.display();
116                     obj1.cheque();
117                     obj1.deposit();
118                     obj1.simple_interest();
119                     obj1.withdrawal();
120                     break;
121
122                 case 2: obj2 = new current();
123                     obj2.accept();
124                     obj2.display();
125                     obj2.cheque();
126                     obj2.deposit();
127                     obj2.withdrawal();
128                     break;
129
130                 default: System.out.println("Invalid Input");
131         }
132     }
133 }
```

```
1. Savings
2. Current
Enter your choice: 1

Enter the name of the account holder:
abc
Enter account number:
123
Enter account balance:
2000

Details-
Name: abc
Account number: 123
Balance: 2000.0

No cheque service

Enter the amount to be deposited:
500
Available balance= 2500.0


Enter Rate of interest:
8
Enter the number of times interest applied per time period
3
Enter the time elapse:
4
Simple interest = Rs 3.167635202407837E46
No minimun balance required
Enter the amount to be withdrawn
1000
1000.0 withdrawn
Available balance= 1500.0
```

```
1. Savings
2. Current
Enter your choice: 2

Enter the name of the account holder:
abc
Enter account number:
123
Enter account balance:
2000

Details-
Name: abc
Account number: 123
Balance: 2000.0

Cheque service available

Enter the amount to be deposited:
500
Available balance= 2500.0
Minimun balance = Rs 1000.00
Enter the amount to be withdrawn: 1600
Service charge of Rs 100.0 is added.
Available balance= 800.0


...Program finished with exit code 0
Press ENTER to exit console.
```