Q) one saving and other current aci. The saving account provides of compound interest and withdrawl but no cheque book. current account provide cheque book facility but no interest. current account should hold a min balance below this level charge is imposed.

Include necessary methods (a). Accept deposit from customer (b) display balance, (c) compute and deposit , (d) Permit withdra check for minimum balance and if necessary penalty are update balance.

```java
Import Java. util. * ;

class Bank
    {       public string name ;
            public int acc_no;

            public float bal;
            public float si;

        public void accept ( )

        {
            Scanner s = new Scanner (System.in)
            System.out.print (" \n Enter name of
                                    the acc holder ")
            name = s.next ( )
            system.out. print (" Enter the account
                                    number ; ");
            acc _no = s. nextInt ( )
            system .out. print (" Enter the account
                                    balance ; ");
            bal = s. next float ( );

        }

    public void display ( )

        {
            system.out.println ( " Details ")
            system. out. println (" Name ; " + Name
        }   \n Account number; " + acc_no +
                                                " \n
```

```java
public void simple_interest()
{
    System.out.println("\nRate of Interest
                            = 8%");
    si = (bal * 8)/100;
    System.out.println("simple interest
                        (for one year) = Rs"+si);
}
}

class savings extends bank
{
    public void cheque()
    {
        System.out.println("No cheque services");
    }
    public void withdrawal()
    {
        float amount;
        Scanner a = new Scanner(System.in);
        System.out.println("No minimum
                            balance
                                required");

        System.out.print("Enter amout
                        to be withdrawn:");

        amount = a.nextfloat();
        if (amount > super.bal)
        {
            System.out.println("Balance
                            is insufficient");
        }
        else
        {
```

```java
        super.bal = super.bal - amount;
        system.out.println(amount + "
                                        withdrawn");
        system.out.println(" Available balance
                                = "+super.bal);
        }
    }
}

class current extends bank
{
    public void cheque()
    {
        system.out.println(" Cheques service
                                available ");
    }
    public void withdrawall()
    {
        float amount;
        Scanner a = new Scanner (System.in);
        System.out.println(" Minimum
                                balance = RS
                                1000.00");
        if (super.bal <1000)
        {
        system.out.println(Balance is in Sufficient
                                to withdraw");
        float service_charge;
        service_charge = (1* super.bal)/100;
        super.bal = super.bal -service_charge;
        system.out.println("service change of RS "+ service
                                charge +" is
                                added");
    } system.out.println(" Available balance = RS "+
                                super.bal);
```

```java
    else
    {
        system.out.print ("Enter amount to be
                           withdrawn;");
        amount = a.nextfloat();
        if (amount > (super.bal-1000))
        {
            system.out.println ("Balance is
                                 Insufficient");
        }
        else
        {   super.bal = super.bal - amount;
            System.out.println (amount + "
                                withdrawn");
            System.out.println (" Available
                  balance = " + super.bal);
        }
    }
}

class Main {
    public static void main (String args[])
    {
        savings obj1[] = new savings[3];
        current obj2[] = new current[3];
        system.out.print (" Enter the
                          no of accounts;")
        Scanner x = new scanner(System.in);
        Int n = x.nextInt()
        int i = 0
        int j = 0
        int k = 0
        while (i<n)
        {   system.out.println ("\nAccount"
                                + (i+1)).
            system.out.println (" 1) Savings
                                 2) Current");
```

```java
System.out.print(" Enter the type of account", y,)
int ch = x.nextInt().

if (ch==1)
{
                    obj1[j] a new savings();
                    obj1[j] a. accept();
                    obj2[j] a. display();
                    obj1[j]. cheque();
                    obj1[j]. simple interest();
                    obj1[j]. withdrawal();
                    j++;
            }
    else
            {
                    obj2[k] = new current();
                    obj2[k] a. accept();
                    obj2[k]. display();
                    obj2[k]. cheque();
                    obj2[k]. withdrawl();
                    k++;
            }
            i++;
        }
    }
}
```

output

Enter the number of account : 1

Account 1

1> Savings
2> Current

Enter the type of account : 1

Enter the tot.name of account holder : Abhi

Enter the account number ; 290478

Enter the account balance ; 7000

* Details *

Name : Abhi

Account number : 2904768

Balance ; 7000.0

No cheque services

Rate of interest = 8%

simple interest < for one year> = RS 560.0

No minimum balance required

Enter the amount to be withdrawn : 3000

3000.0 withdraw successfully

Available balance = 4000.0.

Write all
possible
o/p options

```
C:\javaprograms>java Main
Enter the number of accounts: 1

Account 1

1)Savings
2)Current
Enter the type of account: 2

Enter the name of the account holder: abhi
Enter the account number: 129067
Enter the account balance: 12000
*Details*
Name: abhi
Account number: 129067
Balance: 12000.0

Cheque services available

Rate of interest= 8%
Simple interest(for one year)= Rs960.0

Minimun balance= Rs.1000.00
Enter the amount to be withdrawm: 1200
1200.0 withdrawm
Available balance= 10800.0
```

```
C:\javaprograms>java Main
Enter the number of accounts: 1

Account 1

1)Savings
2)Current
Enter the type of account: 1

Enter the name of the account holder: kani
Enter the account number: 2980167
Enter the account balance: 2000
*Details*
Name: kani
Account number: 2980167
Balance: 2000.0

No cheque services

Rate of interest= 8%
Simple interest(for one year)= Rs160.0
```