INHERITENCE - BANK

BHARATH

IBM19CS035

```
import java.util.Scanner;
class Account
{
    private String name;
    private double account_no;
    private double ~~account~~ balance;
    private char account_type;
    void getdata(char ch)
    {
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter name");
        name = sc.nextLine();
        System.out.print("Enter account number");
        account_no = sc.nextDouble();
        System.out.print("Enter Balance");
        balance = sc.nextDouble();
        account_type = ch;
    }
    void updatebalance(double x)
    {
        balance = balance + x;
    }
```

```
Void update balance1 (double x)
{
    balance = balance - x;
}
double getbalance ()
{
    return balance;
}
void displaybalance ()
{
    System.out.println ("The balance = " + balance);
}
}
class Sav_account extends account
{
    private double interest_rate;
    Sav_account()
    {
        Scanner sc = new Scanner (System.in);
        getdata ('s');
        System.out.print ("Enter Interest rate:");
        interest_rate = sc.nextDouble ();
    }
```

```
void getdeposit()
{
    Scanner sc = new Scanner(System.in);
    System.out.print("Enter deposit account");
    double x = sc.nextDouble();
    updatebalance(x);
}
void computeinterest()
{
    double x = (getbalance() * interest_rate)/100
    updatebalance(x);
    System.out.println("Compount interest: "+x);
    displaybalance();
}
void withdraw()
{
    System.out.print("Enter withdraw amount");
    double x = sc.nextDouble();
    while(x > getbalance())
    {
    System.out.print("The withdraw is more than balance");
}
```

```
        updatebalance1(x);
        displaybalance();
    }
}
class Curr_Account extends Account
{
    private double min_balance;
    private int cheque_book;
    Curr_Account()
    {
        Scanner sc = new Scanner(System.in);
        System.out.print("Enter deposit amount");
        double x = sc.nextDouble();
        updatebalance(x);
    }
    void issuecheque()
    {
        Scanner sc = new Scanner(System.in);
        System.out.print("Enter amount cheque");
        double x = sc.nextDouble();
        if (x > (getbalance() - min_balance))
        {
```

```
        System.out.println("cheque is more than
            minbalance, fine of 500 rupees");
        updatebalance1(500);
    }
    else
        updatebalance1(x);
    displaybalance();
}
void withdraw1()
{
    System.out.println("Enter withdrawl amount");
    Scanner sc=new Scanner(System.in);
    double x=sc.nextDouble();
    while(x>getbalance() - min_balance)
    System.out.println("withdrawn amount is
                        more than balance");
    updatebalance1(x);
    displaybalance();
}
}
```

```
class Main
{
    public static void main (String args[])
    {
        Scanner sc = new Scanner (System.in);
        char ch;
        System.out.print ("Enter account choice");
        ch = sc.next().charAt(0);
        if (ch == 'S' || ch == 'S')
        {
            Sav_Account s = new Sav_Account();
            int x = 1;
            while (x != 0)
            {
            System.out.println ("Enter 0 for exit");
            System.out.println ("Enter 1 for deposit");
            System.out.println ("Enter 2 for balance");
            System.out.println ("Enter 3 for interest");
            System.out.println ("Enter 4 for withdrawal");
            x = sc.nextInt();
            if (x == 0)
              break;
```

```
else if (x==1)
 s.getdeposit();
else if (x==2)
 s.displaybalance();
else if (x==3)
 s.computeinterest();
 else if (x==4)
  s.withdrawal();
 }
}
else
{
    Cur_Account s=new Cur_Account();
    int x=1;
    while(x!=0)
    {
    System.out.println("Enter 0 for Exit");
    System.out.println("Enter 1 for deposit");
    System.out.println("Enter 2 for balance");
    System.out.println("Enter 3 for Cheque");
    System.out.println("Enter 4 for withdrawl");
    x=Sc.nextInt();
```

```
if (x==0)
    break;
else if (x==1)
    s.getdeposit();
else if (x==2)
    s.displaybalance();
else if (x==3)
    s.issuecheque();
else if (x==4)
    s.withdrawl();
}
}
}
}
```