

OBJECT ORIENTED PROGRAMMING LAB

ASSIGNMENT: 7

DATE: 11-04-2023

SLOT: L3+L4

MAX MARKS: 10

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Regno: 22BCE9513

1. Write a Java program to design a banking application that displays the details of a Customer, Account Information, calculating interest etc using interfaces Supporting multiple inheritance.

INPUT:

```
import java.util.Scanner;
interface A
{
    void Cus_det_display(String name,long ph_no);
    void ac_info_display(long ac_no,int bal);
}
interface B
{
    void cal_interest(int prin_am,int years,int ri);
}
class Bank implements A,B
{
    String name;
    long ph_no;
    long ac_no;
    int bal;
    int prin_am;
    int years;
    int ri;
    Bank(String name,long ph_no,long ac_no,int bal,int prin_am,int years,int ri)
    {
        this.name=name;
        this.ph_no=ph_no;
        this.ac_no=ac_no;
        this.bal=bal;
        this.prin_am=prin_am;
        this.years=years;
        this.ri=ri;
        Cus_det_display(name,ph_no);
        ac_info_display(ac_no,bal);
        cal_interest(prin_am,years,ri);
    }
    public void Cus_det_display(String name,long ph_no)
    {
        System.out.println("CUSTOMER DETAILS");
        System.out.println("Name : "+name);
        System.out.println("Phone number : "+ph_no);
    }
}
```

```

    public void ac_info_display(long ac_no,int bal)
    {
        System.out.println("Account details of "+name);
        System.out.println("Account number : "+ac_no);
        System.out.println("Account balance : "+bal);
    }
    public void cal_interest(int prin_am,int years,int ri)
    {
        System.out.println("Principle Amount : "+prin_am);
        System.out.println("No of years : "+years);
        System.out.println("Rate of interest : "+ri);
        double interest=(prin_am*years*ri)/100;
        double amount=prin_am+interest;
        System.out.println("Interest Amount : "+interest);
        System.out.println("Total amount : "+amount);
    }
}
class New
{
    public static void main(String[] args )
    {
        Scanner input=new Scanner(System.in);
        System.out.print("Enter the name of the customer : ");
        String n=input.nextLine();
        System.out.print("Enter their phone number : ");
        long ph=input.nextLong();
        System.out.print("Enter their account number : ");
        long ac=input.nextLong();
        System.out.print("Enter the balance amount in the customer amount : ");
        int bal=input.nextInt();
        System.out.println("Loan amount Calculator ");
        System.out.print("Enter the principle amount : ");
        int am=input.nextInt();
        System.out.print("Enter the no of years : ");
        int y=input.nextInt();
        System.out.print("Enter the rate of interest : ");
        int ri=input.nextInt();
        Bank k=new Bank(n,ph,ac,bal,am,y,ri);
    }
}

```

OUTPUT:

```

C:\22BCE9513>javac New.java

C:\22BCE9513>java New
Enter the name of the customer : Bindu Madhavi
Enter their phone number : 8977667277
Enter their account number : 29362002002828275
Enter the balance amount in the customer amount : 20000
Loan amount Calculator
Enter the principle amount : 2350000
Enter the no of years : 10
Enter the rate of interest : 5
CUSTOMER DETAILS
Name : Bindu Madhavi
Phone number : 8977667277
Account details of Bindu Madhavi
Account number : 29362002002828275
Account balance : 20000
Principle Amount : 2350000
No of years : 10
Rate of interest : 5
Interest Amount : 1175000.0
Total amount : 3525000.0

```