**//Aim : marks demo(inheritance program)**

**input**

class Marks

{

    int M1,M2;

    Marks(int a,int b)

    {

        M1=a;

        M2=b;

        System.out.println("Inside marks constructor"+M1+" "+M2);

    }

}

class Marks1

{

    String name;

    Marks obj1=new Marks(88,99);

    Marks1(String n)

    {

        name=n;

        System.out.println("Inside Marks1 constructor");

    }

    double avg()

    {

        return (obj1.M1+obj1.M2)/2;

    }

    void display()

    {

        System.out.println("Name of student is "+name);

        System.out.println("Marks obtained in 1st subject are "+obj1.M1);

        System.out.println("Marks obtained in 2nd subject are "+obj1.M2);

        System.out.println("avg of both is "+avg());

    }

}

class MarksDemo

{

    public static void main(String arg[])

    {

        Marks1 m=new Marks1("Nikhil");

        m.display();

    }

}

**output**

C:\Users\Nikhil\Desktop\bsc cs\sem 3 practical\java>java MarksDemo

Inside marks constructor88 99

Inside Marks1 constructor

Name of student is Nikhil

Marks obtained in 1st subject are 88

Marks obtained in 2nd subject are 99

avg of both is 93.0