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/*
PC-NO:-
Enroll:-
Faculty Name:
Name:-
Class:- B.Sc.IT
Date:- 22/04/2022
Div:- B
Assignment: 3
Assignment Aim: Constructors
taitle:- Write a java program which contains overloaded constructor named
power () to raise a number m to a power n.
a. The power () function takes a double value for m and int value for n
and returns the result correctly. Use a default value of 2 for n to make
the function to calculate squares when this argument is omitted.
b. The power () function takes an int value for m and int value for n and
returns the result correctly. Use a default value of 2 for n to make the
function to calculate squares when this argument is omitted.
*/

import java.util.Scanner;

class Power{
    double m;
    double n;

    Power(double x , int y){
        m=x;
        n=y;
    }
    Power(int a , double b)
    {
        m=a;
        n=b;
    }
    void display(){
        double res = Math.pow(m, n);
        System.out.println("Power is:= "+res);
    }
}

public class power_constructor {

    public static void main(String[] args) {
        double x;
        int y;

        int a;
        double b;

        Scanner sc = new Scanner(System.in);
        System.out.println("Enter x: ");
        x=sc.nextDouble();
        System.out.println("Enter y: ");
        y=sc.nextInt();

        System.out.println("Enter a: ");
        a=sc.nextInt();
        System.out.println("Enter b: ");
        b=sc.nextDouble();
    }
}

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    Power obj = new Power(x, y);  
    Power obj1 = new Power(a, b);  
    obj.display();  
    obj1.display();  
}  
  
}
```