**Class & Objects**

Q1. Room Volume Calculation Design a class named Room with three data members: height, width, and breadth. Include a method volume() to compute and return the volume of the room. Create a separate class RoomDemo that creates instances of the Room class and displays the volume for each instance.

**Code:-**

import java.util.\*;

class Room{

int height;

int width;

int breadth;

int volume;

public Room(int height,int width,int breadth){

this.height=height;

this.width=width;

this.breadth=breadth;

}

public void volume(){

volume=height\*width\*breadth;

System.out.println("volume of room is : "+volume);}

public void display(){

System.out.println("enter height of room : "+height);

System.out.println("enter width of room : "+width);

System.out.println("enter breadth of room : ");

}

}

class RoomDemo{

public static void main(String[] args){

Scanner sc=new Scanner(System.in);

System.out.println("enter height of room : ");

int height=sc.nextInt();

System.out.println("enter width of room : ");

int width=sc.nextInt();

System.out.println("enter bredth of room : ");

int breadth=sc.nextInt();

sc.close();

Room room=new Room(height,width,breadth);

room.display();

room.volume();

}

}

**Output:-** **D:\cdac25\all assignment\java\assignment 4>java RoomDemo**

**enter height of room :**

**5**

**enter width of room :**

**6**

**enter bredth of room :**

**7**

**enter height of room : 5**

**enter width of room : 6**

**enter breadth of room :**

**volume of room is : 210**

Q2. Student Marks and Average Create a class Student with the following members: ● Name of the student ● Marks in three subjects ● A method to assign initial values ● A method to compute the total and average marks ● A method to display the student’s name and total marks Write a main() method to demonstrate the functionality of the class