**Q.**Develop a Java program to create a class Student with members USN, name, an array credits and an array marks. Include methods to accept and display details and a method to calculate SGPA of a student.

import java.util.\*;

class student{

Scanner sc = new Scanner(System.in);

double sgpa,temp=0;

String usn;

String name;

int[] credits = new int[4];

int[] grade = new int[4];

student(String u,String n,int[] c)

{

usn=u;

name=n;

credits=c;

}

void grade\_points()

{

System.out.println("\nEnter the grades of the student for 4 subjects:");

for(int i=0;i<grade.length;i++)

{

grade[i]=sc.nextInt();

}

}

void calculate()

{

for(int i=0;i<credits.length;i++)

{

temp=temp+(credits[i]\*grade[i]);

}

sgpa=temp/11;

}

void display()

{

grade\_points();

calculate();

System.out.println("\n\nName of the Student:"+name);

System.out.println("\nUSN of the Student:"+usn);

System.out.println("\nSGPA of the Student is"+sgpa);

}

}

class main{

public static void main(String args[])

{

Scanner scan1 = new Scanner(System.in);

int[] c= new int[4];

c[0]=3; c[1]=3; c[2]=4; c[3]=1;

System.out.println("\nEnter the name of the student:");

String n = scan1.nextLine();

System.out.println("\nEnter the USN of the student:");

String u = scan1.nextLine();

student s1 = new student(u,n,c);

s1.display();

}

}

**Output:**



