Program 28

Develop a Java program to create class student with member USN, name, an array credits and an array marks. Include method to accept and display details and method to calculate SGPA & of a student.

```java
import java.util.Scanner;
class student {
  void display ($ String Name, String USN);
  {
    System.out.println ("Enter your USN" + USN);
    System.out.println ("Student Name" + name);
  }
void calculatesgpa (double[] marks, double [] credits, int number)
  {
    double gradepoint[] = new double [number].
    double sgpa, sum = 0, tnum = 0;
    for (i=0 ; i < number; i++) {
      {
        if (marks [i] >= 90)
          gradepoints[i] = 10;
```

```java
if (marks[i] >=80)
 gradepoints [i]= 9;
if (marks[i] >=70)
   gradepoints [i]= 8;
if (marks [i] >=60)
 grade points [i]= 7;
if (marks [i] >=50)
 gradepoints [i]= 6;
if (marks [i] >=40)
    grade points [i]= 4;
 else
    grade points [i]=0;
}

for (int i=0; i <number ; i++)
   {
    sum+= credits [i] * gradepoints [i];
   }.

 for (int i=0; i <number ; i++)
    {
    tnum+=  credits[i];
    }

    Sgpa=  sum/tnum;
    System.out.println ("SGPA is "+sgpa);
   }
}
```

```java
class lab2.java{
    public static void main (String args[])
        Scanner s = new Scanner (System.in)

System.out.print (" Enter name and usn of student");
    name = s.next();
    usn = s.next();
System.out.println ("Enter the number of course");
    int num = s.nextInt();
double credits[] = new double [number];
double marks credits[] = new double [number];
    for (int i=0; i<number; i++)
{
    System.out.println (" Credit of subject "+ (i+1)+ " : ")
    credits[i] = s.nextDouble();
    System.out.println (" Marks of subject "+ (i+1)+ " : ")
    marks[i] = s.nextDouble();
}
    S1. display (name, usn)
    S1. Calculategpa (marks, credits, number);
}
}
```

output:

enter name and USN of student

abcd

10

Enter the number of course

6

Credit Subject 1 : 4

Marks subject 1 : 95

Credit Subject 2 : 3

Marks Subject 2 : 82

Credit Subject 3 : 2

Marks Subject 3 : 68

Credit Subject 4 : 1

Marks subject 4 : 51

Credit Subject 5 : 2

Marks Subject 5 : 40

Credit Subject 6 : 1

Marks Subject 6 : 33

USN of student 10

Name of the student abcd

SGPA 4.7 : 307

```
Command Prompt                                                                    —   □   X

icrosoft Windows [Version 10.0.22000.1455]
c) Microsoft Corporation. All rights reserved.

:\Users\hp>cd C:\Users\hp\OneDrive\Desktop\1bm21cs008

:\Users\hp\OneDrive\Desktop\1bm21cs008>javac lab2.java

:\Users\hp\OneDrive\Desktop\1bm21cs008>java lab2
nter name and usn of student
bcd
0
nter the number of courses

redit of subject 1 : 4
arks of subject 1 : 95
redit of subject 2 : 3
arks of subject 2 : 82
redit of subject 3 : 2
arks of subject 3 : 68
redit of subject 4 : 1
arks of subject 4 : 51
redit of subject 5 : 2
arks of subject 5 : 40
redit of subject 6 : 1
arks of subject 6 : 33
SN of the student 10
ame of the student abcd
GPA is 7.3076923076923075

:\Users\hp\OneDrive\Desktop\1bm21cs008>_
```