LAB-2

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

```java
import.java.util.*;
class Student13
{

    String USN;
    String name;
    int credits [];
    int marks [];
    int n, tol = 0;
    double SGPA;

    Student13()
    {
    SGPA = 0;
    }
    void input ()
    {

    Scanner sc = new Scanner (System.in);
    System.out.println(" Enter the USN and the
                            name of the student ");
    USN = sc.nextLine ().
    name = sc.nextLine ().
    System.out.println(" Enter the number of
                            Subjects ").
    n = sc.nextInt ().
    credits = new int [n].
    marks = new int [n].
```

```java
for (int i=0; i<n; i++)
{
System.out.println("Enter the credits for subject:"
                    + (i+1));
credits [i] = sc. nextInt ();
  tot = tot + credits [i];
}

for (int i=0; i<n; i++)
{

System.out.println(" Enter the marks of the
student for subject:" + (i+1));
marks [i] = sc. nextInt();
}
}

void grade_points ()
{
  int i;
  for (i=0; i<n; i++)
{

  if (marks [i] >=90  && marks [i] < 100 )
  marks [i] = 10;

  else if (marks [i] >= 80 && marks [i] < 90)
      marks [i] = 9;

  else if (marks [i] >= 70 && marks [i] < 80)
      marks [i] = 8;

  else if (marks [i] >= 60 && marks [i] < 70)
      marks [i] = 7;
```

```java
        else if( marks [i] > 70 && marks [i] <60)
            marks [i] = 60;

        else if ( marks [i] >= 60 && marks [i] <50)
            marks [i] = 4;

        else if ( marks [i] < 40)
            marks [i] = 0;
        }
    }
}

void calculate_SGPA()
{
    int i;
    for (i=0; i<n; i++)
    {
        SGPA = SGPA + tot;
        SGPA = SGPA + ( credits [i] * marks [i]);
    }
        SGPA = SGPA / tot;
}

void display_details ()
{
        System.out.println (" The student with
        VSN: " + VSN + ", Name : " + name + ", SGPA:"
        + SGPA);
}

public static void main (String [] args)
{
        Student13 obj = new Student ();
```

```
Obj. input ();
obj. gerade_points ();
obj. Calculate_SGPA ();
obj. display_details ();
}
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```