Lab Program 2:
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.

```java
import java.util.Scanner;
class student{
  String usn , name;
  int credits[] = new int[10];
  int marks[]= new int[10];
  int i;
  float sgpa;
  Scanner in =new Scanner(System.in);
  void read_details()
  {
    System.out.print("Enter your name :");
    name = in.nextLine();
    System.out.print("Enter your USN :");
    usn = in.nextLine();
    System.out.print("Enter credits for each subject :");
    for (i=0;i<6 ;i++ ) {
      System.out.print("Subject "+(i+1)+" :");
      credits[i]= in.nextInt();
    }
    System.out.print("Enter marks in each subject :");
    for (i=0;i<6 ;i++ ) {
      System.out.print("Subject "+(i+1)+" :");
      marks[i]= in.nextInt();
    }
  }
  void display_details()
  { int i;
    System.out.println("the student details are :");
    System.out.println("Name :"+name);
    System.out.println("USN :"+usn);
```

```java
      System.out.println("Credits for each subject :");
      for (i=0;i<6 ;i++ ) {
        System.out.println("Subject "+(i+1)+" credits
:"+credits[i]);
      }
      System.out.println("Marks in each subject :");
      i=0;
      for (i=0;i<6 ;i++ ) {
        System.out.println("Subject "+(i+1)+" marks
:"+marks[i]);
      }
      calc_sgpa();
      System.out.println("Sgpa :"+sgpa);
    }
  void calc_sgpa()
  {
    float sumgp=0;
    float sumcred=0;
    int gp=0;
    for (i=0;i<6 ;i++ )
    {
      if (marks[i]>=90) gp=10;
      else if(marks[i]>=80) gp=9;
      else if(marks[i]>=70) gp=8;
      else if(marks[i]>=60) gp=7;
      else if(marks[i]>=50) gp=6;
      else  gp=5;
      sumgp=sumgp+(gp*credits[i]);
      sumcred=sumcred+credits[i];
    }

    sgpa=(sumgp/sumcred);
  }

}
class student_main
{
  public static void main(String[] args)
  {
```

```
        student s= new student();
        s.read_details();
        s.display_details();
    }
}
```

```
PS D:\sem3\ooj_lab\09-10-2020> javac .\student_main.java
PS D:\sem3\ooj_lab\09-10-2020> java student_main
Enter your name :qwerty
Enter your USN :123
Enter credits for each subject :Subject 1 :2
Subject 2 :4
Subject 3 :4
Subject 4 :4
Subject 5 :4
Subject 6 :5
Enter marks in each subject :Subject 1 :45
Subject 2 :56
Subject 3 :67
Subject 4 :78
Subject 5 :89
Subject 6 :90
the student details are :
Name :qwerty
USN :123
Credits for each subject :
Subject 1 credits :2
Subject 2 credits :4
Subject 3 credits :4
Subject 4 credits :4
Subject 5 credits :4
Subject 6 credits :5
Marks in each subject :
Subject 1 marks :45
Subject 2 marks :56
Subject 3 marks :67
Subject 4 marks :78
Subject 5 marks :89
Subject 6 marks :90
Sgpa :7.826087
PS D:\sem3\ooj_lab\09-10-2020>
```