WEEK-2

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

```
import java.util.Scanner;
class Student {
       String name, USN;
       int marks[] = new int[10];
       int credits[] = new int[10];
       double SGPA=0;
       int n;
       Scanner s=new Scanner(System.in);
       void Input(){
              System.out.println();
              System.out.print("Enter name of the student: ");
              name=s.nextLine();
              System.out.print("Enter USN: ");
              USN=s.nextLine();
              System.out.print("Enter the number of courses: ");
              n=s.nextInt();
              for(int i=0;i<n;i++){
                      System.out.println();
                      System.out.println("Enter the credits of subject "+(i+1));
                      credits[i]=s.nextInt();
                      System.out.println("Enter the marks of subject "+(i+1));
                      marks[i]=s.nextInt();
               }
       }
```

```
void Display(){
       System.out.println();
       System.out.println("NAME :"+name);
       System.out.println("USN: "+USN);
       System.out.println("SGPA is "+SGPA);
}
void CalcSGPA(){
       double grade=0, totalcred=0;
       int i;
for(i=0;i< n;i++){}
       totalcred=totalcred+credits[i];
       }
for(i=0;i<n;i++){
       if(marks[i] >= 90)
       {
              grade+=credits[i]*10;
       }
       else if(marks[i]>=80)
       {
              grade+=credits[i]*9;
       }
       else if(marks[i]>=70)
       {
              grade+=credits[i]*8;
       }
       else if(marks[i]>=60)
```

```
{
                      grade+=credits[i]*7;
               }
              else if(marks[i]>=50)
              {
                      grade+=credits[i]*6;
               }
              else if(marks[i]>=40)
              {
                      grade+=credits[i]*5;
               }
              else\{
                      grade=0;
               }
       }
       SGPA=grade/totalcred;
       }
}
class SGPA{
       public static void main(String args[]){
              Student st= new Student();
              st.Input();
              st.CalcSGPA();
              st.Display();
       }
}
```

OUTPUT:

Command Prompt

```
C:\Users\VIGNESH\Downloads\00JLAB>javac Program2_SGPA.java
C:\Users\VIGNESH\Downloads\OOJLAB>java SGPA
Enter name of the student: VIGNESH
Enter USN: 1BM21CS240
Enter the number of courses: 9
Enter the credits of subject 1
Enter the marks of subject 1
88
Enter the credits of subject 2
Enter the marks of subject 2
97
Enter the credits of subject 3
Enter the marks of subject 3
92
Enter the credits of subject 4
Enter the marks of subject 4
87
Enter the credits of subject 5
Enter the marks of subject 5
94
Enter the credits of subject 6
Enter the marks of subject 6
Enter the credits of subject 7
Enter the marks of subject 7
90
Enter the credits of subject 8
Enter the marks of subject 8
94
Enter the credits of subject 9
Enter the marks of subject 9
87
NAME :VIGNESH
USN: 1BM21CS240
SGPA is 9.35
```