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.

```
import java.util.*;
class Student
{
String USN;
String name;
int credits[];
int marks[];
int i,n,tot=0;
double SGPA;
Student()
{
SGPA=0;
}
void input()
{
Scanner sc=new Scanner(System.in);
System.out.println("Enter the USN and name of 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];
for(i=0;i<n;i++)
{
```

```
System.out.println("Enter the credits of subject "+(i+1));
credits[i]=sc.nextInt();
tot=tot+credits[i];
}
for(i=0;i<n;i++)
{
System.out.println("Enter the marks of subject "+(i+1));
marks[i]=sc.nextInt();
}
}
void grade_point()
{
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;
else if(marks[i]>=50 && marks[i]<60)
marks[i]=5;
else if(marks[i]>=40 && marks[i]<50)
marks[i]=4;
else if(marks[i]<40)
marks[i]=0;
}
```

```
}
void cal_SGPA()
{
for(i=0;i<n;i++)
{
SGPA=SGPA+(credits[i]*marks[i]);
}
SGPA=SGPA/tot;
}
void display()
{
System.out.println("-----");
System.out.println("Student details are:");
System.out.println("USN:"+USN);
System.out.println("Name:"+name);
System.out.println("SGPA:"+SGPA);
System.out.println("-----");
}
}
class lab2
{
public static void main(String args[])
Student stu=new Student();
stu.input();
stu.grade_point();
stu.cal_SGPA();
stu.display();
```

```
}
```

OUTPUT