## 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.

## **Source Code:**

```
import java.util.*;
class Student{
String usn, name;
Scanner sc = new Scanner(System.in);
Student(){
System.out.println("Enter your USN");
usn=sc.next();
System.out.println("Enter your Name");
name=sc.next();
}
int marks[]=new int[50];
int credits[]=new int[50];
int sum1=0;
int sum2=0;
void markenter(int x)
{
for (int i=0;i< x;i++){
System.out.println("Enter the marks in subject "+i+": ");
marks[i]=sc.nextInt();
```

```
System.out.println("Enter the credits in subject "+i+": ");
credits[i]=sc.nextInt();
sum1+=credits[i];
if (marks[i]>=90){
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]=6;
}
else if(marks[i]>=40 && marks[i]<50)
{
marks[i]=5;
}
```

```
else
{
marks[i]=0;
}
}
}
double calc(int z)
{
for (int f=0;f<z;f++){
sum2+=marks[f]*credits[f];
}
return (sum2/sum1);
}
}
class SGPA{
public static void main(String args[]){
Student stud=new Student();
Scanner sc= new Scanner(System.in);
System.out.println("Enter the number of subjects");
int n=sc.nextInt();
stud.markenter(n);
System.out.println("SGPA scored is "+ stud.calc(n) );
}
}
```

## **Output:**

```
C:\Windows\System32\cmd.e
                           + |
C:\Javaprog>java SGPA
Enter your USN
1BM21CS092
Enter your Name
Krishn
Enter the number of subjects
Enter the marks in subject 0:
Enter the credits in subject 0:
Enter the marks in subject 1:
Enter the credits in subject 1:
Enter the marks in subject 2:
78
Enter the credits in subject 2:
SGPA scored is 8.0
C:\Javaprog>java SGPA
Enter your USN
1BM21CS409
Enter your Name
Pablo
Enter the number of subjects
Enter the marks in subject 0:
Enter the credits in subject 0:
Enter the marks in subject 1:
Enter the credits in subject 1:
SGPA scored is 4.0
C:\Javaprog>
```