

LAB PROG-(2) : Develop a Java Program
to display the name, USN and input
the marks, credits from the user
calculate the SGPA and display
with the name and usn

```
import java.util.Scanner;  
class Subject  
{  
    int marks;  
    int credits;  
    int grade;  
}  
  
class Student  
{  
    String name;  
    String usn;  
    double SGPA;  
    Subject[] subject;  
    Scanner s;  
    Student()  
    {  
        int i;  
        subject = new Subject[8];  
    }  
}
```

```

for (i=0; i<8; i++)
    subject[i] = new subject();
s = new Scanner (System.in);
}

void getStudentDetails()
{
    System.out.println ("Enter the name
of student");
    name = s.nextLine();
    System.out.println ("Enter the USN");
    USN = s.nextLine();
}

void getMarks()
{
    System.out.println ("Enter the marks
and credits of each subject");
    for (int i=0; i<8; i++)
    {
        subject[i].marks = s.nextInt();
        subject[i].credits = s.nextInt();
        if (subject[i].marks >= 90)
            subject[i].grade = 'A';
        else if (subject[i].marks >= 80 && subject
[i].marks < 90)
            subject[i].grade = 'B';
        else if (subject[i].marks >= 70 && subject
[i].marks < 80)
            subject[i].grade = 'C';
        else if (subject[i].marks >= 60 && subject
[i].marks < 70)
            subject[i].grade = 'D';
        else if (subject[i].marks >= 50 && subject
[i].marks < 60)
    }
}

```



```
subject[i].grade = 6;  
else if (subject[i].marks >= 40 && subject  
[i].marks < 50)
```

```
subject[i].grade = 5;
```

```
else
```

```
{
```

```
system.out.println("Invalid marks");  
break;
```

```
}
```

```
}
```

```
}
```

```
}
```

```
void compute SGPA()
```

```
{
```

```
double creditsgained = 0;
```

```
double totalcredits = 0;
```

```
for (int i = 0, i < 8, i++)
```

```
{
```

```
totalcredits += subject[i].credits;
```

```
creditsgained += subject[i].grade *
```

```
subject[i].credits;
```

```
}
```

```
SGPA = creditsgained / totalcredits;
```

```
}
```

```
void display()
```

```
{
```

```
system.out.println("Name of the  
student = " + name);
```

```
system.out.println("USN = " + USN);
```

```
system.out.println("SGPA = " + SGPA);
```

```
}
```

```
}
```

```

public class Main {
    public static void main (String args[])
    {
        student s1 = new student ();
        s1. getStudentDetails ();
        s1. getMarks ();
        s1. computes GPA;
        s1. display ();
    }
}

```

Output:

Enter The name of student

Pradeep

Enter The USN

1BM22CS197

Enter the marks and credits of each subject

95

4

90

4

89

3

96

3

94

3

89

1

98

1

93

1

Name of the student = Pradeep

USN = 1BM22CS197

SGPA = 9.8.

19/12/23