

LAB prgm-2.

```

import java.util.Scanner;
class subjects {
    int subjectMarks, credits, grade;
}
class student {
    String name;
    String usn;
    double SGPA;
    Scanner s;
    subject subjects[];

```

```

student()
{

```

```

    int i;
    subjects = new subject[9];
    for (i=0; i<8; i++)
        subjects[i] = new subject();
    s = new Scanner(System.in);

```

```

}
public void getStudentDetails() {
    System.out.println("Enter student name:");
    name = s.nextLine();

```

```

    System.out.println("Enter student usn:");
    usn = s.nextLine();
}

```

```

public void getMarks() {
    int i;
    for (i=0; i<8; i++) {
        System.out.println("Enter marks of subject " + (i+1) + ":");
        subjects[i].subjectMarks = s.nextInt();
        if (subjects[i].subjectMarks >= 40 &&
            subjectsMarks <= 100) {
            subjects[i].grade = calculateGrade

```



```
(subject[i].subjectMarks); }
else {
```

```
System.out.println("Invalid Marks.
Marks should be between 40 and
100"); }
```

```
System.out.println("enter credits");
subject[i].credits = s.nextInt();
}
}
```

```
public int calculateGrade(int marks) {
    if (marks >= 90)
        return 10;
    else if (marks >= 70 && marks <= 80)
        return 9;
    else if (marks >= 60 && marks <= 70)
        return 8;
    else if (marks >= 50 && marks <= 60)
        return 7;
    else
        return 6;
}
}
```

```
public void computeSGPA() {
    int totalScore = 0;
    int totalCred = 0;
    for (int i = 0; i < 8; i++) {
        totalScore += subject[i].grade *
            subject[i].credits;
        totalCred += subject[i].credits;
    }
    SGPA = (double) totalScore / (double)
        totalCred;
}
}
```



```

public class student
{
    public static void main (String args[])
    {
        student s1 = new student();
        s1.get student Details();
        s1.get Marks();
        s1.compute SGPA();
        System.out.println ("Student name: "
                               + s1.name);
        System.out.println ("Student USN" + s1.usn);
        System.out.println ("Student sgpa: " + s1.sgpa);
    }
}

```

Output

Enter student name:

marya.

Enter Student USN:

109283

Enter marks of subjects 1:

88

Enter credits:

8

Enter marks of subjects 2:

78

Enter credits:

7

Enter marks of subjects 3:

89

Enter credits:

9

Enter marks of subjects 4:

78

Enter credits:

7

Enter marks of subjects:

88

Enter credits:

8

Enter marks of subjects:

67

Enter credits:

7

Enter marks of subjects:

80

enter credits:

7

Enter marks of subjects:

78

Enter credits:

7

Student name: Mary A.

Student USN: 109283.

Student sgpa: 7.62

19/12/23