# LAB-2.

```java
import java.util.Scanner;

class Subject
{
    int subjectMarks;
    int credits;
    int grade;
}

class Student
{
    Subject subject[];
    String name;
    String usn;
    double sgpa = 0;
    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 your name");
        name = s.next();
        System.out.println("Enter your usn");
        usn = s.next();
    }
}
```

```java
void getMarks()
{
    for (int i=0; i<8; i++)
    {
        System.out.println("Enter marks for subject"
                            + (i+1) + ":");
        subject[i].subjectMarks = s.nextInt();
        System.out.println("Enter credits");
        subject[i].credits = s.nextInt();
        subject[i].grade = (subject[i].subjectMark)
        if (subject[i].grade > 11)
                subject[i].grade = 10;
        if (subject[i].grade <= 4)
                subject[i].grade = 0;
    }
}

void computeSGPA()
{
    int totalCredits = 0;
    for (int i = 0; i<8; i++)
    {
        sgpa += (subject[i].credits * subject[i].grade);
        totalCredits += subject[i].credits;
    }

    sgpa = sgpa / totalCredits;
}
}
Class main
{
    public static void main(String args[])
    {
        Student s1 = new Student();
        s1.getStudentDetails();
```

```
        s1.gdMarks();
        s2.computeSGPA();
        System.out.println("Name:"+s1.name);
        System.out.println("Usn:" + sl.usn);
        System.out.println("SGPA:" + sl.sgpa);
    }
}
```

Output:
Enter your Name
Shamanth
Enter your Usn
1BM22CS251
Enter sub marks of subject 1
91
Enter credits of subject 1
4
Enter marks of subject 2
85
Enter Credits of Subject 2
4
Enter marks of subject 3
85
Enter Credits of subject 3
3
Enter marks of subject 4
86
Enter Credits of subject 4
3
Enter marks of subject 5
81
Enter credits of subject 5
3

Enter marks of subject 6
85
Enter credits of subject 6
1
Enter marks of subject 7
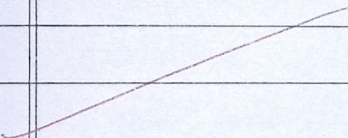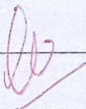95
Enter credits of subject 7
1
Enter marks of subject 8
98
Enter credits of subject 8
1

Name : shamanth
USN : 1BM22CS251
SGPA : 9.3