

## Lab Program 2

```
import java.util.*;
```

```
public class Subject {  
    int SubjectMarks, credits, grade;  
}
```

```
class Student  
{
```

```
    Subject subject[];  
    String name, usn;  
    double sgpa;
```

```
    Scanner SC = new Scanner(System.in);
```

```
    int n;  
    Student()  
    {
```

```
        Subject = new Subject[10];
```

```
        String name, usn;
```

```
        double sgpa;
```

```
        SC = System.out.println("Enter no. of subjects");
```

```
        n = SC.nextInt();
```

```
        for(int i=0; i<n; i++)
```

```
        { subject[i] = new Subject(); }
```

```
        SC.nextLine();
```

```
    }
```

```
void the getStudentDetails()  
{
```

```
    System.out.println("Enter name and USN");
```

```
    name = SC.nextLine();
```

```
    usn = SC.nextLine();
```

```
}
```

```
void getMarks()
```

```
{
```

```
    system.out.println("\n");
    for (int i = 0; i < n; i++)
    {
```

```
        system.out.println("Enter no. of credits");
        subject[i].credits = SC.nextInt();
        system.out.println("Enter marks obtained");
        subject[i].subjectMarks = SC.nextInt();
        if (subject[i].subjectMarks > 100)
            subject[i].subjectMarks = 100;
        else if
```

```
            int k = subject[i].subjectMarks;
```

```
            if (k > 100)
            {
```

```
                k = 100;
            }
```

```
            else if (k < 40)
```

```
            {
                k = 0;
            }
```

```
            else if (k  
            student[i].grade = 0; }

```

```
            else if (k >= 40 && k <= 49)
```

```
            {
```

```
                student[i].grade = 4;
```

```
            }
```

```
            else if (k >= 50 && k <= 59)
```

```
            {
```

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

```
            }
```

```
            else if (k >= 60 && k <= 69)
```

```
            {
```

```
                student[i].grade = 6;
```

```
            }
```

```

double computeSGPA() {
    int eff = 0, cred = 0;
    for(int i = 0; i < n; i++) {
        eff += (subject[i].grade * subject[i].credits);
        cred += subject[i].credits;
    }
}

```

```

class StudentMain {
    public static void main (String args []) {
        {
            Student stud = new Student();
            System.out.println("Pratham" IBM22CS206);
            stud.getStudentDetail();
            stud.getMark;
            System.out.println("Name");
            System.out.println("SGPA = " + stud.computeSGPA());
        }
    }
}

```

~~Name of student is~~

Output: Enter name and USN  
Pratham  
IBM22CS206

~~Enter no. of subject : 2~~

17/12/23