

// student details lab program 2

```
import java.util. Scanner;
```

```
class Student {
```

```
    String name;
```

```
    String usn;
```

```
    int array_credits[];
```

```
    double array_marks[];
```

```
    int n;
```

```
    void getStudentData()
```

```
    {
```

```
        System.out.println("enter the student details");
```

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

```
        System.out.println("enter the student name");
```

```
        name = s.next();
```

```
        System.out.println("enter the student usn");
```

```
        usn = s.next();
```

```
        System.out.println("enter the number of subjects");
```

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

```
        array_credits = new int[n];
```

```
        array_marks = new double[n];
```

```
        System.out.println("enter the credits of each subject");
```

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

```
        {
```

```
            array_credits[i] = s.nextInt();
```

```
        }
```

```
        System.out.println("enter the marks of each subject");
```

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

```
        {
```

```
            array_marks[i] = s.nextDouble();
```

```
        }
```

```
    void calculate_SGPA()
```

```
    {
```

```
        double sgpa = 0;
```

```
        double tot_credits = 0;
```

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

```
        {
```

```
            tot_credits = tot_credits + array_credits[i];
```

```
            sgpa = sgpa + (array_credits[i] * array_marks[i]);
```

```
        }
```

```

sgpa = sgpa / tot_credits;
System.out.println(" the total marks of the student is " + sgpa);
if (sgpa >= 90)
System.out.println(" sgpa = S");
else if (sgpa >= 80)
System.out.println(" sgpa = A");
else if (sgpa >= 70)
System.out.println(" sgpa = B");
else if (sgpa >= 60)
System.out.println(" sgpa = C");
else if (sgpa >= 50)
System.out.println(" sgpa = D");
else if (sgpa >= 40)
System.out.println(" sgpa = E");
else if (sgpa <= 39)
System.out.println(" sgpa = F");
}

```

```

void display_details()
{

```

```

    System.out.println(" Student details:");
    System.out.println(" name = " + name);
    System.out.println(" usn = " + usn);
    System.out.println(" marks obtained by the student are:");
    for (int i = 0; i < n; i++)
    {
        System.out.println(array_marks[i]);
    }
}

```

```

class stdmain {

```

```

    public static void main(String args[])
    {

```

```

        Student s1 = new Student(1);
        s1.getStudentData();
        s1.display_details();
        s1.calculate_sgpa();
    }
}

```