

LAB-2

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

```
class student
```

```
{
```

```
    String name;
```

```
    String usn;
```

```
    int marks[] = new int[5];
```

```
    int credits[] = new int[5];
```

```
    int i, n;
```

```
    int grade = 0;
```

```
    double total = 0;
```

```
void get_data()
```

```
{
```

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

```
    System.out.println("Enter Student Name:");
```

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

```
    System.out.println("Enter the USN:");
```

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

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

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

```
    System.out.println("Enter Subjects & marks & credits:");
```

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

```
    {
```

```
        System.out.println("Credits for subject " + (i+1) + ":");
```

```
        credits[i] = in.nextInt();
```

```
        System.out.println("Marks in subject " + (i+1) + ":");
```

```
        marks[i] = in.nextInt();
```

```
    }
```

```
}
```

```

void calculate sgpa()
{
    for (i=0; i < n; i++)
    {
        if (marks[i] >= 90 && marks[i] <= 100)
            grade = 10;
        else if (marks[i] >= 80 && marks[i] <= 90)
            grade = 9;
        else if (marks[i] >= 70 && marks[i] <= 80)
            grade = 8;
        else if (marks[i] >= 60 && marks[i] <= 70)
            grade = 7;
        else if (marks[i] >= 50 && marks[i] <= 60)
            grade = 6;
        else if (marks[i] >= 40 && marks[i] <= 50)
            grade = 5;
        else if (marks[i] >= 30 && marks[i] <= 40)
            grade = 0;
        else
            system.out.println("Invalid entered marks");
        total = total + (grade * credits[i]);
    }
}

```

```

total = total / 20;
system.out.println("Sgpa = " + total);
}

```

```

void stud-details()
{
    system.out.println("Name : " + name);
    system.out.println("USN : " + usn);
    system.out.println("Marks & credits of all subjects :");
    for (i=0; i < n; i++)
    {

```



```
System.out.println("Subject:" + (i+1) + ":");  
System.out.println("Marks:" + marks[i]);  
System.out.println("Credits:" + credits[i]);  
}
```

```
calculate_sgpac();  
}
```

```
public static void main (String args[])  
{
```

```
Student s = new Student();
```

```
s.get_data();
```

```
s.calculate_sgpac();
```

```
s.stud_details();
```

```
}
```

```
}
```