

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

```
class Student
```

```
{
```

```
    private String usn;
```

```
    private String name;
```

```
    private int[] credits;
```

```
    private int[] marks;
```

```
    private int sum=0;
```

```
    private double sgpa
```

```
    private int m=0;
```

```
    public void Usn(String usn) {  
        this.usn = usn;
```

```
    }
```

```
    public void Name(String name) {  
        this.name = name;
```

```
    }
```

```
    public void Credits(int[] credits) {  
        this.credits = credits;
```

```
    }
```



```
Public void Marks (int[] marks) {  
    this.marks = marks;  
}
```

```
void display()
```

```
{  
    System.out.println("Name: " + name);  
    System.out.println("USN" + usn);  
    System.out.println("Credits of each subject");  
    for (i = 0; i < credits.length; i++)  
    {  
        System.out.println("marks of each subject:");  
        for (int j = 0; j < marks.length; j++)  
        {  
            System.out.println(marks[j]);  
        }  
    }  
}
```

```
void sgpa()
```

```
{  
    for (int i = 0; i < marks.length; i++)  
    {  
        if (marks[i] >= 90)  
            sum += credits[i] * 10;  
    }  
}
```



```
else if (marks[i] >= 80 && marks[i] < 90)
```

```
    sum += credits[i] * 9
```

```
else if (marks[i] >= 70 && marks[i] < 80)
```

```
    sum += credits[i] * 8;
```

```
else if (marks[i] >= 60 && marks[i] < 70)
```

```
    sum += credits[i] * 7;
```

```
else if (marks[i] >= 50 && marks[i] < 60)
```

```
    sum += credits[i] * 6
```

```
else if (marks[i] >= 40 && marks[i] < 50)
```

```
    sum += credits[i] * 5;
```

```
else
```

```
    sum += credits[i] * 0;
```

```
}
```

```
sgpa = sum * 1.0 / m;
```

```
System.out.println("SGPA: " + sgpa);
```

```
}
```

```
}
```

```
public class Arya
```

```
{
```

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



```

{
    Scanner SS = new Scanner(System.in);
    int[] Credits = new int[] { 5, 4, 4, 4, 3 };
    String[] Subject = new String[] { "Chemistry", "Em1",
    "mechanics", "EEE", "EED" };
    int[] marks = new int[Credits.length];
    for (int i = 0; i < Credits.length; i++)
    {
        System.out.print(Subject[i] + ": ");
        marks[i] = SS.nextInt();
    }
    Student S = new Student();
    S.USN("IBM19CS044");
    S.Name("deepu-K");
    S.marks(marks);
    S.Credits(Credits);
    S.display();
    S.Sgpa();
}
}

```