

```
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 (int i=0 ; i < credits.length ; i++)
```

```
{
```

```
    System.out.println (credits[i]);
```

```
    m += credits[i];
```

```
}
```

```
System.out.println (" Marks of each subject:");
```

```
for (int i=0 ; i < marks.length ; i++)
```

```
{
```

```
    System.out.println (marks[i]);
```

```
}
```

```
}
```

```
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[] sub = new String[] { "Chemistry", "MI",  
                                         "Mechanics", "EEE", "EED" };
```

```
        int[] marks = new int[credits.length];
```

```
        for (int i = 0; i < credits.length; i++)
```

```
        {
```

```
            System.out.print(sub[i] + " : ");
```

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

```
        }
```

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

```
        s.usn("IBM19CS022");
```

```
        s.name("ARJHANT");
```

```
        s.marks(marks);
```

```
        s.credits(credits);
```

```
        s.display();
```

```
        s.sgpa();
```

```
    }
```

```
}
```