

- Develop a Java Program to create a class Student with members, USN, name, an array Credits and an array marks. Include methods to accept and display details and a method to calculate SGPA of a Student.

Soln Program:-

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

```
class Student
```

```
{
```

```
    String USN;
```

```
    String name;
```

```
    int n;
```

```
    double SGPA = 0;
```

```
    int total Credits = 0;
```

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

```
    void Details()
```

```
    {
```

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

```
        USN = ss.nextLine();
```

```
        System.out.println("Enter the name of the Student");
```

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

```
        System.out.println("Enter number of student");
```

```
        name.n = ss.nextInt();
```

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

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

```
        System.out.println("Enter details of the Student subject:");
```

Teacher's Signature : _____


```
for (int i = 0 ; i < n ; i++)  
{  
    System.out.println("Enter Credits allotted to the Subject "+ (i+1));  
    Credits [i] = ss.nextInt();  
    System.out.println("Enter marks in the Subject "+ (i+1));  
    marks [i] = ss.nextInt();  
    Calculate (Credits [i] , marks [i], i);  
}  
}  
  
void Calculate (int credit , double mark , int i)  
{  
    totalCredits = totalCredits + credit;  
    if (mark >= 90 && mark <= 100)  
        SGPA = SGPA + (10 * credit);  
    else if (mark >= 80 && mark <= 89)  
        SGPA = SGPA + (9 * credit);  
    else if (mark >= 70 && mark <= 79)  
        SGPA = SGPA + (8 * credit);  
    else if (mark >= 60 && mark <= 69)  
        SGPA = SGPA + (7 * credit);  
    else if (mark >= 50 && mark <= 59)  
        SGPA = SGPA + (6 * credit);  
    else if (mark >= 40 && mark <= 49)  
        SGPA = SGPA + (5 * credit);  
    else  
        System.out.println("Failed in Subject " + (i+1));  
}
```



```
void Display ()
```

```
{
```

```
    System.out.println ("Details of the Student");
```

```
    System.out.println ("Name:" + name);
```

```
    System.out.println ("USN:" + USN);
```

```
    System.out.println ("SGPA of Student" + (SGPA {total Credits}));
```

```
}
```

```
}
```

```
Public Class Lab4-2
```

```
{
```

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

```
{
```

```
        Student s1 = new Student();
```

```
        s1.Details ();
```

```
        s1.Display();
```

```
}
```

```
}
```