

Program-2

```
2) import java.util.Scanner;
class student
{
    void display (String name, String usn)
    {
        System.out.println ("usn of the student: " + usn);
        System.out.println ("name of the student: " + name);
    }
    void calculateGpa (double[] marks, double[] credits,
                      int number)
    {
        double gradePoints[] = new double[number];
        double sgpa, sum = 0, tnum = 0;
        for (int i = 0; i < number; i++)
        {
            if (marks[i] >= 90)
                gradePoints[i] = 10;
            else if (marks[i] >= 80 && marks[i] < 90)
                gradePoints[i] = 9;
            else if (marks[i] >= 70 && marks[i] < 80)
                gradePoints[i] = 8;
            else if (marks[i] >= 60 && marks[i] < 70)
                gradePoints[i] = 7;
            else if (marks[i] >= 50 && marks[i] < 60)
                gradePoints[i] = 6;
        }
    }
}
```

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else if (marks[i] >= 40 && marks[i] < 50)
    gradePoints[i] = 5;
else
    gradePoints[i] = 0;
}
for (int i = 0; i < number; i++)
{
    sum = credits[i] * gradePoints[i];
}
for (int i = 0; i < number; i++)
{
    num = credits[i];
}
sgpa = sum / num;
System.out.println("sgpa is " + sgpa);
}

class sgpa {
    public static void main (String args[])
    {
        Scanner s = new Scanner (System.in);
        System.out.println("enter name and usn
            of the student");
        String name = s.next();
        String usn = s.next();
    }
}

```



```

(student s1 = new student ());
System.out.println ("enter number of courses");
int number = s.nextInt ();
double credits [] = new double [number];
double marks [] = new double [number];
for (int i=0; i< number; i++)
{
    System.out.println ("credit of the subject" +
        (i+1) + ":");
    credits [i] = s.nextDouble ();
    System.out.println ("marks of the subject" +
        (i+1) + ":");
    marks [i] = s.nextDouble ();
}
s1.display (name, usn);
s1.calculate sgpa (marks, credits, number);
}
}

```

```
C:\Users\Avani\Desktop\1bm21cs036>java sgpa
enter name and usn of the student
Avani 1BM21CS036
enter number of courses
5
credit of the subject1:
4
marks of the subject1:
60
credit of the subject2:
3
marks of the subject2:
70
credit of the subject3:
3
marks of the subject3:
80
credit of the subject4:
2
marks of the subject4:
50
credit of the subject5:
1
marks of the subject5:
100
usn of the student:1BM21CS036
name of the student:Avani
sgpa is 7.769230769230769

C:\Users\Avani\Desktop\1bm21cs036>S
```