8) WAP to calculate the SGPA of a given person and display its details

→
```
import java.util.Scanner
public class Student
{

    String name;
    String USN;
    int credits[8] = {4, 4, 4, 3, 3, 2, 1};
    int marks[] = new int[8];
    Scanner sc = new Scanner(System.in)
    public void details ()
    {

        System.out.println ("Enter your name");
        name = sc.next();
        System.out.println ("Enter your USN
        usn = sc.next();
    }
    public void marks ()
    {

        System.out.println ("Enter your marks in correct order");
        for
        System.out.println ("Enter 10 for 90-100 9 for 80-89, 8 for 70-79 and so on");
        for (int i=0; i<8; i++)
        termp = credits[i]
```

```java
        { marks[i] = sc.nextInt();}
    public double sgpa()
    {
        double sgpa, temp;
        for (i=0; i<8; i++)
            if (marks>100)
            temp += credits[i] * marks[i];
            ave @ i+1)
        sgpa = temp/22;
        return sgpa;
    }

    public void display()
    {
        System.out.println("Name :" + name);
        System.out.println("USN:" + usn);
        System.out.println("sgpa:" + sgpa());
    }

    public static void main (String[] args)
    {
        Student S1 = new Student();
        S1.details();
        S1.marks();
        S1.display();
    }
}
```

Output: Enter your name : Akanksha
      Enter your USN : 1BM22CS027
100 95 90 92 89 90 85 93
Name : Akanksha
USN: 1BM22CS026

- **Algorithm:**

Start:
1) Intialise variables of Name, USN of type string and credits and marks as int type of array

2) Intialise values of credits as credits[ ] = {4, 4, 4, 3, 3, 2, 1}

3) Take user input for name, usn and marks and store it

4) Calculat sgpa as credits * marks divided by 22

5) display details using display function

6) ~~tot~~ create a variable s1 of type (object) student and access diffrent methods with it.

7) Stop

29/12/23

```
C:\Users\bmsce\Desktop\1bm22cs027 ooj>cd C:\Users\bmsce\Desktop\1bm22cs027 ooj

C:\Users\bmsce\Desktop\1bm22cs027 ooj>javac Student.java

C:\Users\bmsce\Desktop\1bm22cs027 ooj>java Student
AKANKSHA SINGA
1BM22CS027
Enter your name:
Akanksha
Enter your usn:
1BM22CS027
Enter your marks in same order:
100
95
90
92
89
90
85
93
Name: Akanksha
USN:1BM22CS027
SGPA:9.818181818181818

C:\Users\bmsce\Desktop\1bm22cs027 ooj>
```