

Q Calculate the SGPA of a given person.
by creating a method to accept values
and calculate SGPA, Also display values

```
Import java.util.Scanner;
```

```
public class Student
```

```
{
```

```
String usn;
```

```
String name;
```

```
private static int credit[] = {4, 4, 4, 3, 3, 2, 1, 1};
```

```
int marks[] = new int[8];
```

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

```
public void get-details()
```

```
{
```

```
System.out.println("Enter your usn:");
```

```
usn = s.next();
```

```
System.out.println("Enter your name:");
```

```
name = s.next();
```

```
}
```

```
public void set-marks()
```

```
{
```

```
System.out.println("Enter your marks  
in order eg considering 91-100 as 10, 81-90-9);
```

```
for (int i = 0; i < 8; i++)
```

```
{
```

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

```
}
```

```
}
```

```
for (int i = 0; i < 8; i++)  
{
```

```
public double sgpa()  
{
```

```
double sgpa = 0, temp = 0;
```

```
for (int i = 0; i < 8; i++)
```

```
{
```

```
temp += credit[i] * marks[i];
```

```
}
```

```
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.get_details();
```

```
s1.set_marks();
```

```
s1.display();
```

```
}
```

```
}
```

Algorithm.

start

- 1) Generate a class Student with variables usn, name and credits array with values { 4, 4, 4, 3, 3, 2, 1, 1 } and marks array,
- 2) Receive details name and usn from user in the get-details function
- 3) create set-marks function to set the marks from user by accepting values one after the other
- 4) create function sgpa where create temporary variable temp which stores the value of credits * marks for every individual subject
- 5) Calculate sgpa by dividing total credits with temp
- 6) Generate a display function which will display name, usn and sgpa
- 7) Inside the main function create an object of class student call the functions get details, set marks and display
- 8) stop

Algorithm

(Start

Output

enter your usn

IBM22CS029

enter name

AKSHARA

enter your marks in same order as credits

100

100

97

89

96

95

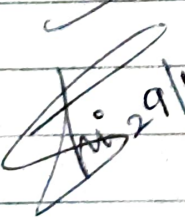
87

99

Name: AKSHARA

Usn : IBM22CS029

Sgpa : 9.81818

 29/12/23

```
C:\Users\STUDENT\Desktop\1bm22cs029>javac Student.java
```

```
C:\Users\STUDENT\Desktop\1bm22cs029>java Student
```

```
enter your usn
```

```
1BM22CS029
```

```
enter name:
```

```
AKSHARA
```

```
enter your marks in the same order as credits
```

```
100
```

```
100
```

```
97
```

```
89
```

```
96
```

```
95
```

```
87
```

```
99
```

```
Name:AKSHARA
```

```
Usn:1BM22CS029
```

```
Sgpa:9.818181818181818
```