

## WEEK-2:

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.

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

```
class SGPA{  
    double cgpa;  
    void sgpa(String u, int c[], int m[])  
    {  
        System.out.println("USN:\t"+u);  
        cgpa = (double)(c[0]*m[0] + c[0]*m[1] + c[1]*m[2] + c[1]*m[3] + c[1]*m[4] + c[1]*m[5] +  
c[2]*m[6])/18;  
        System.out.println("SGPA:\t"+ cgpa);  
    }  
}
```

```
class Student{  
    public static void main(String args[])  
    {  
        int credits[] = new int[3];  
        credits[0] = 1;  
        credits[1] = 3;  
        credits[2] = 4;  
        int marks[] = new int[7];  
        Scanner ss = new Scanner(System.in);  
        SGPA one = new SGPA();  
        System.out.println("Enter the name please:\t");  
        String name = ss.next();  
        System.out.println("Please enter "+name+"'s USN:\t");
```

```
String usn = ss.next();
```

```
System.out.println("Enter the marks of the subjects IDT, English, Maths, BEE, ECM, EVI, Physics  
in that order\n");
```

```
for(int i=0;i<7;i++)
```

```
{
```

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

```
}
```

```
for(int i=0;i<7;i++)
```

```
{
```

```
    if(marks[i]==100)
```

```
    {
```

```
        marks[i]=10;
```

```
    }
```

```
    else if(marks[i]<40)
```

```
    {
```

```
        marks[i] = 0;
```

```
    }
```

```
    else
```

```
    {
```

```
        for(int j=10; j>3;j--)
```

```
    {
```

```
        if(j*10-10 <= marks[i] && marks[i]< j*10)
```

```
        {
```

```
            marks[i] = j;
```

```
        }
```

```
    }
```

```
    }
```

```
}
```

```
System.out.println("Would you like to view "+name+"'s Informations? 1/0");
```

```
if(ss.nextInt() != 0)
```

```
{
```

```
        one.sgpa(usn, credits, marks);  
    }  
}  
}
```

## **OUTPUT:**

```
C:\Users\Admin\Desktop\1BM21CS246>javac Student.java  
  
C:\Users\Admin\Desktop\1BM21CS246>java Student  
Enter the name please:  
Vrishank  
Please enter Vrishank's USN:  
1BM21CS246  
Enter the marks of the subjects IDT, English, Maths, BEE, ECM, EVI, Physics in that order  
  
100  
99  
100  
93  
60  
80  
100  
Would you like to view Vrishank's Informations? 1/0  
1  
USN:    1BM21CS246  
SGPA:   9.333333333333334  
  
C:\Users\Admin\Desktop\1BM21CS246>
```