

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 Student {

    void Display(String name, String USN){
        System.out.println("NAME :"+name);
        System.out.println("USN: "+USN);
    }

    void CalcSGPA(int marks[], int credits[]){
        double SGPA=0, grade=0, totalcred=0;
        int i;

        for(i=0;i<5;i++){
            totalcred=totalcred+credits[i];
        }

        for(i=0;i<5;i++){

            if(marks[i]>=90)
            {
                grade+=credits[i]*10;
            }
            else if(marks[i]>=80)
            {
                grade+=credits[i]*9;
```

```

    }
    else if(marks[i]>=70)
    {
        grade+=credits[i]*8;
    }
    else if(marks[i]>=60)
    {
        grade+=credits[i]*7;
    }
    else if(marks[i]>=50)
    {
        grade+=credits[i]*6;
    }
    else if(marks[i]>=40)
    {
        grade+=credits[i]*5;
    }
    Else
    {
        grade=0;
    }
}

SGPA=grade/totalcred;
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 of the student");
        String name=s.nextLine();
        System.out.println("Enter USN");
        String USN=s.nextLine();

        Student st= new Student();

        int marks[]=new int[5];
        int credits[] = new int[5];

        for(int i=0;i<5;i++){
            System.out.println("Enter the credits of subject "+(i+1));
            credits[i]=s.nextInt();
        }

        System.out.println("Enter the marks");

        for(int i=0;i<5;i++){
            System.out.println("subject "+(i+1));
            marks[i]=s.nextInt();
        }

        st.Display(name,USN);
        st.CalcSGPA(marks,credits);
    }
}

```

OUTPUT:

Command Prompt

```
C:\Users\Admin\Desktop>javac SGPA.java
```

```
C:\Users\Admin\Desktop>java SGPA
```

```
Enter name of the student
```

```
VIGNESH
```

```
Enter USN
```

```
1BM21CS240
```

```
Enter the credits of subject 1
```

```
3
```

```
Enter the credits of subject 2
```

```
2
```

```
Enter the credits of subject 3
```

```
3
```

```
Enter the credits of subject 4
```

```
4
```

```
Enter the credits of subject 5
```

```
3
```

```
Enter the marks
```

```
subject 1
```

```
90
```

```
subject 2
```

```
80
```

```
subject 3
```

```
85
```

```
subject 4
```

```
75
```

```
subject 5
```

```
65
```

```
NAME :VIGNESH
```

```
USN: 1BM21CS240
```

```
SGPA is 8.533333333333333
```