

WEEK 3

```
import java.util.Scanner;

class Student
{
    String USN,name;
    int marks[],size,credits[];
    Scanner s = new Scanner(System.in);

    void input()
    {
        System.out.println("Enter USN of student:");
        this.USN = s.next();
        System.out.println("Enter name of student:");
        this.name = s.next();
        System.out.println("Enter number of subjects:");
        this.size = s.nextInt();

        marks = new int[size];
        credits = new int[size];
        for(int i=0;i<size;i++)
        {
            System.out.println("Enter marks of subject"+i+" :");
            this.marks[i] = s.nextInt();
        }

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

void display()
{
    System.out.println("Name of student:"+this.name);
    System.out.println("USN of student:"+this.USN);
    for(int i=0;i<size;i++)
    {
        System.out.println("Marks in subject"+i+"
are:"+this.marks[i]);
    }
}

void SGPA()
{
    double result=0,grade_sub=0;
    int credit_sum=0;

    for(int i=0;i<size;i++)
    {
        if(marks[i]>=90)
        {grade_sub = this.credits[i]*9;}
        else if(marks[i]>=80)
        {grade_sub = this.credits[i]*8;}
        else if(marks[i]>=70)
        {grade_sub = this.credits[i]*7;}
        else if(marks[i]>=60)
        {grade_sub = this.credits[i]*6;}
    }
}

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        else if(marks[i]>=50)
        {grade_sub = this.credits[i]*5;}
        else
        {grade_sub=0;}

        result = result + grade_sub;
        credit_sum = credit_sum + credits[i];
    }

    result = (result/credit_sum);
    System.out.println("SGPA is :"+result);
}
}

class Stud
{
    public static void main(String args[])
    {
        Student s = new Student();
        s.input();
        s.display();
        s.SGPA();
    }
}

```

```
C:\Users\bmsce\Desktop\1BM21CS061>javac Stud
C:\Users\bmsce\Desktop\1BM21CS061>java Stud
Enter USN of student:
1BM21CS061
Enter name of student:
Vikrant
Enter number of subjects:
3
Enter marks of subject0 :
60
Enter marks of subject1 :
70
Enter marks of subject2 :
80
Enter credits of subject0 :
5
Enter credits of subject1 :
4
Enter credits of subject2 :
3
Name of student:Vikrant
USN of student:1BM21CS061
Marks in subject0 are:60
Marks in subject1 are:70
Marks in subject2 are:80
SGPA is :6.833333333333333
```