

## 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("USN of the student "+usn);

    System.out.println("Name of the student "+ name);

}

void calculatesgpa(double[] marks, double[] credits, int number)

{

    double gradepoints[]=new double[number];

    double sgpa,sum=0,tnum=0;

    for (int i=0;i<number;i++)

    {

        if(marks[i]>=90)

            gradepoints[i]=10;

        else if(marks[i]>=80)

            gradepoints[i]=9;

        else if(marks[i]>=70)

            gradepoints[i]=8;

        else if(marks[i]>=60)

            gradepoints[i]=7;

        else if(marks[i]>=50)

            gradepoints[i]=6;

        else if(marks[i]>=40)

            gradepoints[i]=4;

        else

            gradepoints[i]=0;
```

```

    }
    for(int i=0;i<number;i++)
    {
        sum+=credits[i]*gradePoints[i];
    }
    for(int i=0;i<number;i++)
    {
        tnum+=credits[i];
    }
    sgpa=sum/tnum;
    System.out.println("SGPA is "+sgpa);
}
}

```

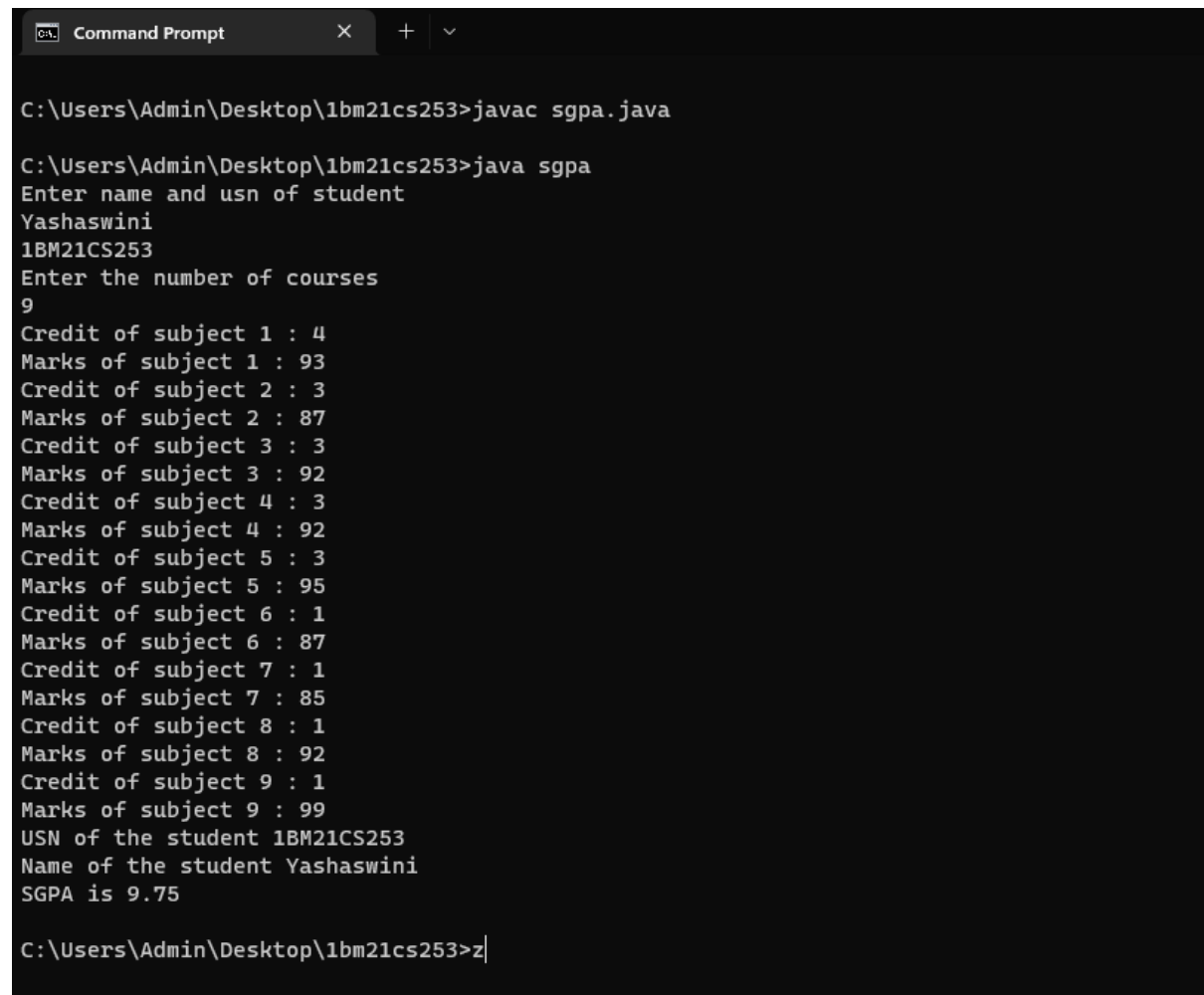
```

class sgpa{
public static void main(String args[]){
    Scanner s=new Scanner(System.in);
    System.out.println("Enter name and usn of student");
    String name=s.next();
    String usn=s.next();
    student s1=new student();
    System.out.println("Enter the number of courses");
    int number=s.nextInt();
    double credits[]=new double[number];
    double marks[]=new double[number];
    for(int i=0;i<number;i++)
    {
        System.out.print("Credit of subject "+(i+1) +" : ");
        credits[i]=s.nextDouble();
        System.out.print("Marks of subject "+(i+1) +" : ");
        marks[i]=s.nextDouble();
    }
}
}

```

```
}  
  
s1.display(name,usn);  
  
s1.calculatesgpa(marks,credits,number);  
  
}  
  
}
```

## OUTPUT



```
C:\Users\Admin\Desktop\1bm21cs253>javac sgpa.java  
  
C:\Users\Admin\Desktop\1bm21cs253>java sgpa  
Enter name and usn of student  
Yashaswini  
1BM21CS253  
Enter the number of courses  
9  
Credit of subject 1 : 4  
Marks of subject 1 : 93  
Credit of subject 2 : 3  
Marks of subject 2 : 87  
Credit of subject 3 : 3  
Marks of subject 3 : 92  
Credit of subject 4 : 3  
Marks of subject 4 : 92  
Credit of subject 5 : 3  
Marks of subject 5 : 95  
Credit of subject 6 : 1  
Marks of subject 6 : 87  
Credit of subject 7 : 1  
Marks of subject 7 : 85  
Credit of subject 8 : 1  
Marks of subject 8 : 92  
Credit of subject 9 : 1  
Marks of subject 9 : 99  
USN of the student 1BM21CS253  
Name of the student Yashaswini  
SGPA is 9.75  
  
C:\Users\Admin\Desktop\1bm21cs253>z|
```