lab Program 2:

Develop a lab 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.

```java
import java.util.Scanner;
public class cgpa {
    public static void main (String [] args) {
        Scanner scanner = new Scanner (System.in);

        System.out.print ("Enter the number of
        subjects :");
        int numSubjects = scanner.nextInt ();

        double [] gradePoints = new double (numsubjects
        int [] credits = new int [num Subjects];
        int total credits = 0;
        double total = 0;

        for (int i = 0; i< numsubjects; i++) {
            System.out.print ("Enter grade points"+(i+1)+
            gradePoints [i] = scanner.nextDouble().

            System.out.println ("Credits"+(i+1)+":");
            credits[i] = scanner.nextInt ();

            total += gradePoints [i]*credits[i];
            total credits += credits[i];
        }
```

```
        double sgpa = total/total credits;
        System.out.println("Your SGPA is: "+sg
    }
```

Output:

Enter the number of subjects : 8
Enter grade points for subject 1 : 9
    "   credits   "   "   "   " : 4
    "   grade   "   "   " 2 : 10
    "   credits   "   "   "   " : 4
    "   grade   "   "   " 3 : 9
    "   credits   "   "   "   " : 4
    "   grade   "   "   " 4 : 8
    "   credits   "   "   "   " : 3
    "   grade   "   "   " 5 : 9
    "   credits   "   "   "   " : 3
    "   grade   "   "   " 6 : 10
    "   credits   "   "   "   " : 2
    "   grade   "   "   " 7 : 10
    "   credits   "   "   "   " : 1
    "   grade   "   "   " 8 : 10
    "   credits   "   "   "   " : 1

Your SGPA is : 9.227272727272

                        24/10/24