Lab-2
SGPA Calculator

```java
//Program to read marks and calculate USISGPA
import java.util.Scanner;

class student {
    String USN, name;
    int n;
    student() {
        String subject[] = new String [10];
        int credits[] = new int [10];
        int marks[] = new int [10];
    }

    void read() {
        Scanner input = new Scanner(System.in);
        System.out.println("Enter your name:");
        name = input.nextLine();

        System.out.println("Enter number your USN:");
        usn = input.nextLine();

        for(int i = 0; i < n; i++) {
            System.out.println("Enter subject:");
            System.out.println("Enter marks:");
            subject[i] = input.nextLine();

            System.out.println("Enter marks:");
            marks[i] = input.nextInt();
```

```java
        System.out.println("Enter credits:");
        credits[i] = input.nextInt();


    void display(){
            System.out.println("Name:" + name);
            System.out.println("USN:" + num);

            System.out.println("Subject \t Credits \t Marks");

            for(int i=0; i<n; i++){
                System.out.println(subject[i] + credits[i] + mark);
            }
    }
}

int grade(int a){
        while(a/10 != 0){
                a = a/10;
        }
        if((a+1)>5){
                return(a+1);
        }
        else if((a+1)==5){
                return a;
        }
        else {return 0;}
}
```

```java
void calculateSGPA(){
            int total-credits=0;
            int marks-credits=0;

            for(int i=0; i<n; i++){
                    total-creditst= credits[0];
                    marks-credits += grad(marks[i])*credit[i];
            }

            System.out.println("SGPA is +"(double) marks_credits/
                                            total_credits)
    };
}

class marks{
        public static void main(String[] args){
                studen s1= new student();
                S1.read();
                S1.display;
                S1.calculateSGPA();

        }
}
```

Output

Enter your name: Abhinav

Enter your USN: 1BM22CS211

Enter number of subjects: 4

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Enter subject: Math
  Enter credits: 4
. Enter marks: 96

Enter subject: Java
Enter credits: 4
Enter marks: 88

Enter subject: Web
Enter credits: 3
Enter marks: 89

Enter subject: English
Enter credits: 1
Enter marks: 98

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Name

Name: Abhinav
USN: 1BM22CS21)

Subject	Credits	Marks
Math	4	96
Java	4	88
Web	3	89
English	1	98

SGPA is 9.41666666

19.12.24