WEEK 2

```java
import java.util.Scanner;

public class Student{
    String USN;
    String name;
    int size;
    int credits[];
    int marks[];
    double result;

    Student(){}
    Scanner s = new Scanner(System.in);

    void input (){

        System.out.println("Enter USN and name");
        USN = s.next();
        name = s.next();

        System.out.println("Enter the number of subjects:");
        size=s.nextInt();
        credits = new int[size];
        marks = new int[size];

        System.out.println("Enter credits of subjects:");

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

    }
    void display (){

        System.out.printf("USN: "+USN+"\tName: "+name);
        System.out.printf("\nCredits: ");

        for (int i=0; i<3; i++){
            System.out.printf("%d\t",credits[i]);
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        }

    System.out.printf("\nMarks: ");

    for (int i=0; i<3; i++){
        System.out.printf("%d\t",marks[i]);
    }
}
double sgpa (){

    result=0;
    int credit_sum = 0;
    int grade[] = new int[size];

    for (int i=0; i<size; i++){

        if (marks[i]>=90){
            grade[i]=10;
        }
        else if (marks[i]>=80){
            grade[i]=9;
        }
        else if (marks[i]>=70){
            grade[i]=8;
        }
        else if (marks[i]>=60){
            grade[i]=7;
        }
        else if (marks[i]>=50){
            grade[i]=6;
        }
        else if (marks[i]>=40){
            grade[i]=5;
        }
        else{
            System.out.println(marks[i]+" is invalid");
        }
    }

    for (int i=0; i<size; i++){

        result += grade[i]*credits[i];
        credit_sum += credits[i];
    }
```

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        result = (result/credit_sum);

        return result;
    }
}

class Stud {
    public static void main(String[] args) {

        int cho;
        int a=0;
        Scanner c = new Scanner (System.in);
        Student s = new Student();

        while (a==0){

            System.out.printf("\n1:Input\t2:Display\t3:Calculate\t4:Exit\n");
            cho = c.nextInt();

            switch (cho){

                case 1:s.input();
                break;

                case 2:s.display();
                break;

                case 3:System.out.println("SGPA is= "+s.sgpa());
                break;

                case 4: a=1;
                break;
            }
        }
    }
}
```

```
1:Input 2:Display        3:Calculate      4:Exit
1
Enter USN and name
1BM21CS061
VIKRANT
Enter the number of subjects:
3
Enter credits of subjects:
4
4
4
Enter marks for the subjects:
70
70
70

1:Input 2:Display        3:Calculate      4:Exit
2
USN: 1BM21CS061 Name: VIKRANT
Credits: 4        4        4
Marks: 70        70        70
1:Input 2:Display        3:Calculate      4:Exit
3
SGPA is= 8.0

1:Input 2:Display        3:Calculate      4:Exit
4

C:\Users\G Sai Madhav\Desktop\OOJ\JAVA PROGRAMS\3RD JAVA PROGRAM>
```