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IBM17CS071

OOT Lab-2

```
import java.util.Scanner;
class Student1 {
    Scanner sc = new Scanner(System.in);
    String USN;
    String Name;
    int credits[] = new int[5];
    float marks[] = new float[5];
    int points[] = new int[5];
    float SGPA;
    int totalCredits = 0;
    void getDetails() {
        System.out.println("Enter  
student USN:");
        USN = sc.nextLine();
        for (int i = 0; i < 5; i++) {
            System.out.println("Enter  
CREDITS for subject " + (i+1) + ":");
            credits[i] = sc.nextInt();
            totalCredits += credits[i];
            System.out.println("Enter marks for  
subject " + (i+1) + ":");
            marks[i] = sc.nextFloat();
        }
    }
}
```



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}
}

void showDetails () {
    System.out.println ("Student USN: " +
        USN);
    System.out.println ("Enter student
        name: " + NAME);
    for (int i = 0; i < 5; i++) {
        System.out.println ("Subject: " + (i+1) +
            "- credits: " + credits[i] + " - Marks: " +
            marks[i]);
    }
    System.out.println ("SGPA of " +
        Name + " is: " + (float) (SGPA / total
            credits));
}

void calcSGPA () {
    for (int i = 0; i < 5; i++) {
        if (marks[i] > 100) {
            System.out.println ("Error: Marks
                are above 100");
            return;
        } else if (marks[i] >= 90) {
            points[i] = 10;
        } else if (marks[i] >= 80) {

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    } points[i] = 9;
    } else if (marks[i] >= 70) {
        points[i] = 8;
    } else if (marks[i] >= 60) {
        points[i] = 7;
    } else if (marks[i] >= 50) {
        points[i] = 6;
    } else if (marks[i] >= 40) {
        points[i] = 4;
    } else {
        points[i] = 0;
    }
    SGPA += (points[i] * credits[i]);
}
}

```

```

}
public class lab2 {
    public static void main (String args
        []) {
        Student stu1 = new Student ();
        stu1.getDetails ();
        stu1.calcSGPA ();
        stu1.showDetails ();
    }
}

```