

Lab program 2 (week 4)

```
import java.util. Scanner;
```

```
class student {
```

```
    Scanner sc = new Scanner(System.in);
```

```
    String USN;
```

```
    String Name;
```

```
    int credits[] = new int[5];
```

```
    int marks[] = new int[5];
```

```
    int SGPA;
```

```
    int totalCredits = 0;
```

```
    void getDetails() {
```

```
        System.out.println("Enter student USN");
```

```
        USN = sc.nextLine();
```

```
        System.out.println("Enter name:");
```

```
        Name = 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 credits marks  
for subject " + (i+1) + ": ");
```

```
marks[i] = sc.nextFloat();
```

```
}
```

```
}
```

```
void showDetails(){
```

```
    System.out.println("Student USN: " + USN);
```

```
    System.out.println("Student Name:");
```

```
    for (i=0; i<5; i++){
```

```
        System.out.println("Subject " + (i+1) + "-
```

```
        credits: " + credits[i] + "- Marks: " + marks[i]);
```

```
    }
```

```
}
```

```
void calcSGPA(){
```

```
    int points[] = new int[5];
```

```
    for (int i = 0; i < 5; i++){
```

```
        if (marks[i] < 0) {
```

```
            System.out.println("Error: Marks below 0");
```

```
            return;
```

```
}
```

PTO

```
{ else if (marks[i] < 40) {  
    points[i] = 0;
```

```
} else if (marks[i] > 40 && marks[i] <= 50) {  
    points[i] = 4;
```

```
} else if (marks[i] > 51 && marks[i] <= 60) {  
    points[i] = 5;
```

```
} else if (marks[i] > 61 && marks[i] <= 70) {  
    points[i] = 7;
```

```
} else if (marks[i] > 71 && marks[i] <= 80) {  
    points[i] = 8;
```

```
} else if (marks[i] > 81 && marks[i] <= 90) {  
    points[i] = 9;
```

```
} else if (marks[i] > 91 && marks[i] <= 100) {  
    points[i] = 10;
```

```
} else {
```

```
    System.out.println("Error marks  
above 100");
```

```
}
```

```
        SGPA += (points[i] * credits[i]);  
    }  
    System.out.println("SGPA of " + Name +  
        " is: " + (float)(SGPA / totalCredits));  
    }  
}
```

```
public class Lab2 {  
    public static void main(String args[]) {  
        Student stu1 = new Student();  
        stu1.getDetails();  
        stu1.showDetails();  
        stu1.calc SGPA;  
    }  
}
```