

Lab 2 program

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18M19C8194

Final

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

```
class Student
```

```
{
```

```
    String name;
```

```
    String usn;
```

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

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

```
    int i, n;
```

```
    int grade = 0;
```

```
    double total = 0;
```

```
    void get_details()
```

```
{
```

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

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

```
        name = in.next();
```

```
        System.out.println ("Enter the USN:");
```

```
        usn = in.next();
```

```
        System.out.println ("Enter the no. of subjects:");
```

```
        n = in.nextInt();
```

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

```
        for (i = 0; i < n; i++)
```

```
{
```

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

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

```
        for (i = 0; i < n; i++)
```

```
            credits[i] = in.nextInt();
```

```
}
```

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

```
        for (i = 0; i < n; i++)
```

```
{
```

```
System.out.println(" Marks in subject " + (i+1) + " : ");  
marks[i] = in.nextInt();
```

```
}  
}
```

```
void calculate-sgpa()
```

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

```
{
```

```
    if (marks[i] >= 90 && marks[i] <= 100)
```

```
        grade = 10;
```

```
    else if (marks[i] >= 80 && marks[i] <= 90)
```

```
        grade = 9;
```

```
    else if (marks[i] >= 70 && marks[i] <= 80)
```

```
        grade = 8;
```

```
    else if (marks[i] >= 60 && marks[i] <= 70)
```

```
        grade = 7;
```

```
    else if (marks[i] >= 50 && marks[i] <= 60)
```

```
        grade = 6;
```

```
    else if (marks[i] >= 40 && marks[i] <= 50)
```

```
        grade = 5;
```

```
    else if (marks[i] >= 30 && marks[i] <= 40)
```

```
        grade = 4;
```

```
    else if (marks[i] >= 20 && marks[i] <= 30)
```

```
        grade = 3;
```

```
    else if (marks[i] >= 10 && marks[i] <= 20)
```

```
        grade = 2;
```

```
    else if (marks[i] >= 0 && marks[i] <= 10)
```

```
    else
```

```
        System.out.println(" Invalid marks entered ");
```

```
        total = total + (grade * credits[i]);
```

```
}
```



```
total = total / 20 ;
```

```
System.out.println("Sgpa = " + total);
```

```
}
```

```
void student_information ()
```

```
{
```

```
System.out.println("Name: " + name);
```

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

```
System.out.println("Marks & Credits of all subjects:");
```

```
for (i = 0; i < n; i++)
```

```
{
```

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

```
" (" Marks: " + marks[i]);
```

```
" (" Credits: " + credits[i]);
```

```
}
```

```
calculate_sgpa();
```

```
}
```

```
public static void main(String args[])
```

```
{
```

```
Student s = new Student();
```

```
s.get_details();
```

```
s.calculate_sgpa();
```

```
s.student_information();
```

```
}
```

```
}
```