

Task 2 : Student Grade Calculator

Input :

The screenshot shows a Java code editor with the file `StudentGradeCalculator.java` open. The code implements a program to calculate student grades based on input from the user. It uses a scanner to read marks for multiple subjects and calculates the average percentage and corresponding grade (A-F).

```
1 import java.util.Scanner;
2 public class StudentGradeCalculator {
3     public static void main(String[] args) {
4         Scanner sc = new Scanner(System.in);
5         System.out.print("Enter number of subjects: ");
6         int subjects = sc.nextInt();
7
8         int totalMarks = 0;
9         // Taking marks input
10        for (int i = 1; i <= subjects; i++) {
11            System.out.print("Enter marks for subject " + i + " (out of 100): ");
12            int marks = sc.nextInt();
13            totalMarks += marks;
14        }
15        // Calculate average percentage
16        double average = (double) totalMarks / subjects;
17
18        // Grade calculation
19        char grade;
20        if (average >= 90) {
21            grade = 'A';
22        } else if (average >= 80) {
23            grade = 'B';
24        } else if (average >= 70) {
25            grade = 'C';
26        } else if (average >= 60) {
27            grade = 'D';
28        } else if (average >= 40) {
29            grade = 'E';
30        } else {
31            grade = 'F';
32        }
33        // Display results
34        System.out.println("\n----- RESULT -----");
35        System.out.println("Total Marks: " + totalMarks);
36        System.out.println("Average Percentage: " + average + "%");
37        System.out.println("Grade: " + grade);
38
39        sc.close();
40    }
41 }
```

Output :

```
OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS C:\Users\Asus\Desktop\java programming language> java StudentGradeCalculator.java
Enter number of subjects: 5
Enter marks for subject 1 (out of 100): 70
Enter marks for subject 2 (out of 100): 80
Enter marks for subject 3 (out of 100): 90
Enter marks for subject 4 (out of 100): 75
Enter marks for subject 5 (out of 100): 95

----- RESULT -----
Total Marks: 410
Average Percentage: 82.0%
Grade: B
PS C:\Users\Asus\Desktop\java programming language>
```