

Task2_StudentGradeCalculator.java

```
1 package src.method;
2 import java.util.Scanner;
3
4 public class Task2_StudentGradeCalculator {
5
6     public static void main(String[] args) {
7         Scanner scanner = new Scanner(System.in);
8
9         System.out.print("Enter the number of subjects: ");
10        int numSubjects = scanner.nextInt();
11
12        // Input marks for each subject
13        int[] marks = new int[numSubjects];
14        for (int i = 0; i < numSubjects; i++) {
15            System.out.print("Enter marks for Subject " + (i + 1) + ": ");
16            marks[i] = scanner.nextInt();
17
18            // Validate marks (assuming marks are out of 100)
19            if (marks[i] < 0 || marks[i] > 100) {
20                System.out.println("Invalid marks. Marks should be between 0 and 100.");
21                return;
22            }
23        }
24
25        // Calculate total marks
26        int totalMarks = calculateTotalMarks(marks);
27
28        // Calculate average percentage
29        double averagePercentage = calculateAveragePercentage(totalMarks, numSubjects);
30
31        // Calculate grade based on average percentage
32        char grade = calculateGrade(averagePercentage);
33
34        // Display results
35        displayResults(totalMarks, averagePercentage, grade);
36
37        scanner.close();
38    }
39
40    private static int calculateTotalMarks(int[] marks) {
41        int totalMarks = 0;
42        for (int mark : marks) {
43            totalMarks += mark;
44        }
45        return totalMarks;
46    }
47
48    private static double calculateAveragePercentage(int totalMarks, int numSubjects) {
49        return (double) totalMarks / numSubjects;
50    }
51
52    private static char calculateGrade(double averagePercentage) {
53        if (averagePercentage >= 90) {
54            return 'A';
55        } else if (averagePercentage >= 80) {
56            return 'B';
57        } else if (averagePercentage >= 70) {
```

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58         return 'C';
59     } else if (averagePercentage >= 60) {
60         return 'D';
61     } else {
62         return 'F';
63     }
64 }
65
66 private static void displayResults(int totalMarks, double averagePercentage, char grade) {
67     System.out.println("\nResults:");
68     System.out.println("Total Marks: " + totalMarks);
69     System.out.println("Average Percentage: " + averagePercentage + "%");
70     System.out.println("Grade: " + grade);
71 }
72 }
73 }
```