

```
import java.util.Scanner;

public class StudentResultSystem {

    public static char calculateGrade(double percentage) {

        if (percentage >= 90) return 'A';

        else if (percentage >= 75) return 'B';

        else if (percentage >= 60) return 'C';

        else if (percentage >= 40) return 'D';

        else return 'F';

    }

    public static void gradeMessage(char grade) {

        switch (grade) {

            case 'A':
                System.out.println("Excellent Performance");
                break;

            case 'B':
                System.out.println("Very Good");
                break;

            case 'C':
                System.out.println("Good");
                break;

            case 'D':
                System.out.println("Pass");
                break;

            case 'F':
                System.out.println("Fail");
                break;

            default:
                System.out.println("Invalid Grade");

        }

    }

}
```

```
public static void main(String[] args) {  
  
    Scanner sc = new Scanner(System.in);  
    char choice;  
  
    while (true) {  
  
        int totalMarks = 0;  
        boolean invalid = false;  
  
        System.out.println("\nEnter marks for 5 subjects:");  
  
        for (int i = 1; i <= 5; i++) {  
            System.out.print("Subject " + i + ": ");  
            int marks = sc.nextInt();  
  
            if (marks < 0 || marks > 100) {  
                System.out.println("Invalid marks! Enter between 0 and 100.");  
                invalid = true;  
                break; // stop subject entry  
            }  
            totalMarks += marks;  
        }  
  
        if (invalid) {  
            continue;  
        }  
  
        double percentage = (totalMarks / 500.0) * 100;  
        char grade = calculateGrade(percentage);  
    }  
}
```

```
System.out.println("\n--- Result Summary ---");

System.out.println("Total Marks: " + totalMarks);

System.out.println("Percentage: " + percentage + "%");

System.out.println("Grade: " + grade);

gradeMessage(grade);

System.out.print("\nDo you want to enter another student? (Y/N): ");

choice = sc.next().charAt(0);

if (choice == 'N' || choice == 'n') {

    break; // exit loop

}

sc.close();

System.out.println("Program Ended.");

}
```

```
Windows PowerShell X + v  
Windows PowerShell  
Copyright (C) Microsoft Corporation. All rights reserved.  
Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows  
PS C:\Users\OMSAI> cd Downloads  
PS C:\Users\OMSAI\Downloads> javac StudentResultSystem.java  
PS C:\Users\OMSAI\Downloads> java StudentResultSystem  
  
Enter marks for 5 subjects:  
Subject 1: 85  
Subject 2: 78  
Subject 3: 90  
Subject 4: 88  
Subject 5: 80  
  
--- Result Summary ---  
Total Marks: 421  
Percentage: 84.2%  
Grade: B  
Very Good  
  
Do you want to enter another student? (Y/N): N  
Program Ended.  
PS C:\Users\OMSAI\Downloads>
```