

~\Downloads\StudentResultGenerator.java

```
1 import java.util.Scanner;
2
3 public class StudentResultGenerator {
4
5     public static void main(String[] args) {
6         Scanner scanner = new Scanner(System.in);
7
8         // Number of students
9         System.out.print("Enter the number of students: ");
10        int numStudents = scanner.nextInt();
11        scanner.nextLine(); // Consume the newline character
12
13        // Arrays to hold student data
14        String[] names = new String[numStudents];
15        int[] mathMarks = new int[numStudents];
16        int[] scienceMarks = new int[numStudents];
17        int[] englishMarks = new int[numStudents];
18        int[] totalMarks = new int[numStudents];
19        double[] averageMarks = new double[numStudents];
20        String[] results = new String[numStudents];
21
22        // Input student data
23        for (int i = 0; i < numStudents; i++) {
24            System.out.println("Student " + (i + 1) + ":");
25
26            System.out.print("Enter name: ");
27            names[i] = scanner.nextLine();
28
29            System.out.print("Enter Math marks: ");
30            mathMarks[i] = scanner.nextInt();
31
32            System.out.print("Enter Science marks: ");
33            scienceMarks[i] = scanner.nextInt();
34
35            System.out.print("Enter English marks: ");
36            englishMarks[i] = scanner.nextInt();
37            scanner.nextLine(); // Consume the newline character
38
39            // Calculate total and average marks
40            totalMarks[i] = mathMarks[i] + scienceMarks[i] + englishMarks[i];
41            averageMarks[i] = totalMarks[i] / 3.0;
42
43            // Determine result
44            if (averageMarks[i] >= 50) {
45                results[i] = "Pass";
46            } else {
47                results[i] = "Fail";
48            }
49        }
50    }
51 }
```

```
49     }
50
51     // Display results
52     System.out.println("\nStudent Results:");
53     System.out.println("Name\t\tMath\tScience\tEnglish\tTotal\tAverage\tResult");
54     System.out.println("-----");
55     for (int i = 0; i < numStudents; i++) {
56         System.out.printf("%s\t%d\t%d\t%d\t%d\t%.2f\t%s\n",
57             names[i], mathMarks[i], scienceMarks[i], englishMarks[i],
58             totalMarks[i], averageMarks[i], results[i]);
59     }
60
61     scanner.close();
62 }
63 }
64 }
```