

# Rajalakshmi Engineering College

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Department: AI & ML - Section 1

Batch: 2028

Degree: B.E - AI & ML

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## 2024\_28\_III\_OOPS Using Java Lab

### 2028\_REC\_OOPS using Java\_Week 2\_Q1

Attempt : 1

Total Mark : 10

Marks Obtained : 10

#### **Section 1 : Coding**

##### **1. Problem Statement**

Arun is working on a project to automate the process of determining whether a student has passed or failed based on their subject marks.

He aims to create a simple program that takes positive integers as marks for five subjects from the user. If the average of the marks is greater than or equal to 50, the student has passed the exam. Otherwise, the student has failed.

Help Arun to implement the project.

##### ***Input Format***

The input consists of five space-separated integers, representing the marks in five subjects.

### ***Output Format***

The first line of output prints "Average score: " followed by an integer representing the average score.

The second line prints one of the following:

1. If the condition is satisfied, print "The student has passed".
2. Otherwise, the output prints "The student has failed".

Refer to the sample output for formatting specifications.

### ***Sample Test Case***

Input: 50 60 70 80 90

Output: Average score: 70

The student has passed

### ***Answer***

```
// You are using Java
import java.util.Scanner;

class StudentResult {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);

        // Read five space-separated integers
        int[] marks = new int[5];
        for (int i = 0; i < 5; i++) {
            marks[i] = sc.nextInt();
        }

        // Calculate the average
        int sum = 0;
        for (int mark : marks) {
            sum += mark;
        }
        int average = sum / 5;

        // Print the average score
```

```
        System.out.println("Average score: " + average);

        // Determine pass or fail
        if (average >= 50) {
            System.out.println("The student has passed");
        } else {
            System.out.println("The student has failed");
        }

        sc.close();
    }
}
```

**Status : Correct**

**Marks : 10/10**