

# Rajalakshmi Engineering College

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Branch: REC

Department: AI & DS - Section 4

Batch: 2028

Degree: B.E - AI & DS

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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.*;
```

```
class Pass{
```

```
    public static void main(String[] args){
```

```
        Scanner sc= new Scanner(System.in);
```

```
        int a=sc.nextInt();
```

```
        int b=sc.nextInt();
```

```
        int c=sc.nextInt();
```

```
        int d=sc.nextInt();
```

```
        int e=sc.nextInt();
```

```
        int avg=(a+b+c+d+e)/5;
```

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

```
        if(avg>50){
```

```
            System.out.println("The student has passed");
```

```
        }
```

```
        else{
```

```
            System.out.println("The student has failed");
```

```
        }
```

```
        sc.close();
```

```
    }
```

```
}
```

Status : Correct

Marks : 10/10

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

### 2028\_REC\_OOPS using Java\_Week 2\_Q2

Attempt : 2

Total Mark : 10

Marks Obtained : 10

### Section 1 : Coding

#### 1. Problem Statement

Samantha is a diligent math student who is exploring the world of programming. She is learning Java and has recently studied conditional statements. One day, her teacher gives her an interesting problem to solve, which takes a number as input and checks whether it is a multiple of 5 or 7.

Help her complete the task.

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

The input consists of a single integer N, representing the number to be checked.

#### ***Output Format***

If the number is a multiple of 5 but not 7, the output prints "N is a multiple of 5"

If the number is a multiple of 7, the output prints "N is a multiple of 7".

Otherwise the output prints "N is neither multiple of 5 nor 7" where N is an entered integer.

Refer to the sample output for formatting specifications.

### **Sample Test Case**

Input: 10

Output: 10 is a multiple of 5

### **Answer**

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

```
public class Main {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        int N = sc.nextInt();

        if (N % 7 == 0) {
            System.out.println(N + " is a multiple of 7");
        } else if (N % 5 == 0) {
            System.out.println(N + " is a multiple of 5");
        } else {
            System.out.println(N + " is neither multiple of 5 nor 7");
        }
    }
}
```

**Status :** Correct

**Marks :** 10/10