

# Rajalakshmi Engineering College

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Branch: REC

Department: AI & DS - Section 4

Batch: 2028

Degree: B.E - AI & DS

Scan to verify results



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

### 2028\_REC\_OOPS using Java\_Week 1\_Q1

Attempt : 1

Total Mark : 10

Marks Obtained : 10

### Section 1 : Coding

#### 1. Problem Statement

Gloria is responsible for monitoring the performance of two machines in a factory. She needs to determine which of the two machines is operating closest to the optimal temperature of 100 degrees Celsius using the relational operator.

Assist Gloria in displaying the machine's temperature, which is closer to 100, and the difference from 100.

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

The first line of input consists of an integer N, representing the temperature of the first machine.

The second line consists of an integer M, representing the temperature of the second machine.

### **Output Format**

The output prints "The integer closer to 100 is X with a difference of Y" where X is the temperature of the closer machine and Y is the difference from 100.

Refer to the sample output for formatting specifications.

### **Sample Test Case**

Input: 90

80

Output: The integer closer to 100 is 90 with a difference of 10

### **Answer**

```
import java.util.Scanner;
class main{
    public static void main(String[] args){
        Scanner sc=new Scanner(System.in);
        int temp1=sc.nextInt();
        int temp2=sc.nextInt();
        int diff1=Math.abs(temp1-100);
        int diff2=Math.abs(temp2-100);
        if(diff1<diff2){
            System.out.println("The integer closer to 100 is "+temp1+" with a
difference of "+diff1);
        }else{
            System.out.println("The integer closer to 100 is "+temp2+" with a
difference of "+diff2);
        }
        sc.close();
    }
}
```

**Status :** Correct

**Marks :** 10/10

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

### 2028\_REC\_OOPS using Java\_Week 1\_Q2

Attempt : 1

Total Mark : 10

Marks Obtained : 10

### Section 1 : Coding

#### 1. PROBLEM STATEMENT:

Dave got two students who want help with their doubt. Each hands out an integer and wants to find if one integer is positive while the other is not divisible by 3. Write a program to achieve this and conclude for them.

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

The first line of input represents the first integer.

The second line of input represents the second integer.

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

The output should display as "One of the integers is positive while the other is not divisible by 3." or "Neither of the integers meets the condition."

Refer to the sample output for the formatting specifications.

**Sample Test Case**

Input: 4

3

Output: One of the integers is positive while the other is not divisible by 3.

**Answer**

// You are using Java

```
import java.util.*;
```

```
class main{
```

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

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

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

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

```
        if((a>0&&b%3!=0)||(b>0&&a%3!=0)){
```

```
            System.out.println("One of the integers is positive while the other is not  
divisible by 3.");
```

```
        }
```

```
        else{
```

```
            System.out.println("Neither of the integers meets the condition.");
```

```
        }
```

```
    }
```

```
}
```

**Status :** Correct

**Marks :** 10/10