

# Rajalakshmi Engineering College

Name: NISHANTH B  
Email: 240701364@rajalakshmi.edu.in  
Roll no: 240701364  
Phone: 7904264876  
Branch: REC  
Department: CSE - Section 10  
Batch: 2028  
Degree: B.E - CSE

Scan to verify results



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

### 2028\_REC\_OOPS using Java\_Week 1\_Q6

Attempt : 1  
Total Mark : 10  
Marks Obtained : 10

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

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

Joey is learning about bitwise operations and is working on a project that involves extracting specific bits from integers. He needs to write a program that takes an integer and the number of bits N as input and outputs the value of the lowest N bits of the integer.

Help Joey in his project to understand and visualize how bitwise operations work in practical scenarios.

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

The first line of input consists of an integer X, representing the given integer.

The second line consists of an integer N, representing the number of bits to extract.

### **Output Format**

The output displays "Result: " followed by an integer representing the value of the lowest N bits of the given integer.

Refer to the sample output for formatting specifications.

### **Sample Test Case**

Input: 85

2

Output: Result: 1

### **Answer**

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

class main {
    public static void main(String[] args) {
        Scanner input = new Scanner(System.in);
        int X = input.nextInt();
        int N = input.nextInt();
        int power = 1 << N;
        int mask = power - 1;
        int result = X & mask;
        System.out.println("Result: " + result);
    }
}
```

**Status : Correct**

**Marks : 10/10**