

# Rajalakshmi Engineering College

Name: Mohit Jha  
Email: 241901056@rajalakshmi.edu.in  
Roll no:  
Phone: 9445934493  
Branch: REC  
Department: CSE (CS) - Section 1  
Batch: 2028  
Degree: B.E - CSE (CS)

Scan to verify results



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

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

Attempt : 3  
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***

```
import java.util.Scanner;

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

        int input = scanner.nextInt();

        int N = scanner.nextInt();

        int result = input & ((1 << N) - 1);

        System.out.println("Result: " + result);

        scanner.close();
    }
}
```

**Status : Correct**

**Marks : 10/10**