

# Rajalakshmi Engineering College

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Branch: REC

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 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**

```
import java.util.*;  
public class Main{  
    public static void main(String[] args){  
        Scanner bit = new Scanner(System.in);  
        int a = bit.nextInt();  
        int b = bit.nextInt();  
        int c = (1 << b) - 1;  
        int result = a & c;  
        System.out.println("Result: " + result);  
        bit.close();  
    }  
}
```

**Status : Correct**

**Marks : 10/10**