

# Rajalakshmi Engineering College

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Branch: REC

Department: CSE - Section 1

Batch: 2028

Degree: B.E - CSE

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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**

```
// You are using Java
import java.util.Scanner;
class Bit{
    public static void main(String[] args){
        Scanner sc=new Scanner(System.in);

        int x=sc.nextInt();
        int n=sc.nextInt();

        int mask=(1<<n)-1;
        int result=x&mask;

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

        sc.close();
    }

}
```

**Status : Correct**

**Marks : 10/10**