

# COM2044 LAB 3 Q1

Q1-)Write a Java program to print a **hollow diamond** (rhombus) shape using stars (\*). The program should take an integer n as input, where n represents the number of rows in the upper half of the diamond (including the middle row).

The program must print the following pattern:

**1. Upper Half (including the middle row):**

- The first row has 1 star centered.
- Each subsequent row has stars at the borders, with spaces in between.
- The stars increase in number as you move downward.
- **Do not print stars in the middle row.** The middle row should consist of only two stars at the edges with spaces in between.

## 2. Lower Half:

- The lower half is a mirror image of the upper half, excluding the middle row.
- The stars are positioned at the borders, and there are spaces between them.

### Specifications:

- The number of rows in the top half is given by  $n$ , and the bottom half will have  $n-1$  rows.
- Each row should have stars only at the outermost positions, with spaces in between (except for the first and last rows of the upper half).
- The program should print the pattern with proper alignment, ensuring the stars are centered.
- Middle row will have  $2n-1$  \*

**Example:**

For n = 5, the program should print the following pattern:

Enter the size of diamond: 5

