Week 01 : Programming Assignment 5

Write a program which will print a pattern of "*" 's of height "n".
For example:
Input:

        n = 3
Output:

        ***
        **
        *
        **
        ***

NOTE:
Print the pattern EXACTLY, without extra spaces.

(**Ignore presentation errors** for this and all future programming assignments)
("*passed with presentation error*" means **you will get full marks**)

Private Test cases used for evaluation	Input	Expected Output	Actual Output	Status
Test Case 1	4	****\n ***\n **\n *\n **\n ***\n ****	****\n ***\n **\n *\n **\n ***\n ****	Passed

The due date for submitting this assignment has passed.
1 out of 1 tests passed.
You scored 100.0/100.

Assignment submitted on 2025-02-01, 21:23 IST
Your last recorded submission was :

```
 1  import java.util.*;
 2  public class W01_P5{
 3      public static void main(String[] args) {
 4          Scanner inr = new Scanner(System.in);
 5          int n = inr.nextInt();
 6  // Add the necessary code in the below space
 7
 8  // Print the top half of the pattern
 9          for (int i = n; i > 0; i--) {
10              for (int j = 0; j < i; j++) {
11                  System.out.print("*");
12              }
13              System.out.println();
14          }
15
16          // Print the bottom half of the pattern
17          for (int i = 2; i <= n; i++) {
18              for (int j = 0; j < i; j++) {
19                  System.out.print("*");
20              }
21              if (i < n) {
22                  System.out.println();
23              }
24          }
25  inr.close();
26      }
27  }
```

Sample solutions (Provided by instructor)

```
 1  import java.util.*;
 2  public class W01_P5{
 3      public static void main(String[] args) {
 4          Scanner inr = new Scanner(System.in);
 5          int n = inr.nextInt();
 6  int i, j;
 7
 8          // outer loop to handle rows
 9          for (i = n; i >= 1; i--) {
10
11              // inner loop to handle columns
12              for (j = 1; j <= i; j++) {
13                  System.out.print("*");
14              }
15
16              // printing new line for each row
17              System.out.println();
18          }
19
20          // outer loop to handle rows
21          for (i = 2; i <= n; i++) {
22
23              // inner loop to handle columns
24              for (j = 1; j <= i; j++) {
25                  System.out.print("*");
26              }
27
28              // printing new line for each row
29              System.out.println();
30          }
31  inr.close();
32      }
33  }
```