**Fundamentals of Programming**

**Lab 04**

***Create one single .c file and use functions for the questions (e.g. ex01, ex02, … for the function names)***

1. Write a program to construct the Pascal triangle with the given integer n.

Example: n = 3

1

1 1

1 2 1

1 3 3 1

1. Write a program to input an array of m x n. Sort the odd column in increasing order and the even column in decreasing order
2. Input an array of n x n (n is even). Sort the 1st diagonal in increasing order and the 2nd diagonal in decreasing order. 1st diagonal starts with element [0,0], 2nd diagonal starts with elements [n-1,0]
3. Input an array of m x n. Provide the following functions:
4. Insert one row
5. Remove one row
6. Insert one column
7. Remove one column
8. Input an array of m x n with all distinguished elements. Find the minimum element of each row then find the maximum number from those