CS 3035, Fall 2022
In-Lab Exercise 5

Due: September 7, 2022 (11:59 AM noon)

The following programming exercise has two parts. Parts 1 is compulsory for everyone and part 2 is optional for those who might want to attempt it. Please submit a zip/tar compressed file containing the following:
1. Your program for Parts 1 (and Part 2 if you attempted it). Both text file (.txt) or a C program file (.c) are acceptable.
2. A file with screenshot of your outputs for each part. Please submit this file as a PDF.

Part 1: Printing the following patterns using nested for loops
Write a program that prints the the following patterns with 10 rows. Use for loops to generate the pattern. All asterisks (∗) should be printed by a single printf statement of the form **printf("*")**.

Hint: The right aligned triangle requires that each line begins with an appropriate number of blanks.

A. Square

```
***********
***********
***********
***********
***********
***********
***********
***********
***********
***********
***********
```

B. Left-aligned Triangle

```
*
**
***
****
*****
******
*******
********
*********
**********
***********
```

C. Right-aligned Triangle

```
***********
 **********
  *********
   ********
    *******
     ******
      *****
       ****
        ***
         **
          *
```

Part 2: Print the following additional Christmas tree pattern using for loops.

```
         *
        ***
       *****
      *******
     *********
    ***********
   *************
  ***************
 *****************
*******************
```