

Questions :

1. Write a Program in c to display the following Pattern.

```
      1
     1 2 3
    1 2 3 4 5
   1 2 3 4 5 6 7
  1 2 3 4 5 6 7 8 9
   1 2 3 4 5 6 7
    1 2 3 4 5
     1 2 3
      1
```

2. Create product list with its unit price and when user enters quantity of particular product calculate and display the total cost using **structure pointer and Function**.

3. Write a Program in c to Print **Lower Triangle of 2D Matrix**

4. Write a Program in c to Multiply two Matrices Using **Multi-dimensional Arrays**.

5. Write a Program in c to merge two unsorted arrays in **descending order**.

6. Write a Program in c to interchange largest and smallest element in an **Array**

7. Write a C program to accept a string from user and after that accept a single character from user and search whether this character is included in that string or not. If it is included then find out the position of that character and also calculate, how many times character repeats in string?

For example:

Entered string : This is C programming

Entered character for search: p

Position of p in string : 11

Repeation of p in string : 1

8. Write a Program in C to read and print the student details using **structure** and **Dynamic Memory Allocation**.

9. Write a Program in C to **compare** contents of two files.

10. Write a Program in C to Convert All Characters in **Upper Case** of a File.

11. Write a Program in C to Implement two Stacks using a Single Array & Check for **Overflow & Underflow conditions**.
12. Write a Program in C to Implement **Priority Queue** to Add and Delete Elements.
13. Write a Program in C Program to Check **if Expression** is correctly Parenthesized or not.