**Q.1** <u>Write a program to generate a following structure:</u>

```
@ @ @ @ @
@ @ @ @ @
@ @ @ @ @
@ @ @ @ @
@ @ @ @ @
```

**Q.2** <u>Write a program to generate a following #'s triangle:</u>

```
# # # # #
  # # # #
    # # #
      # #
        #
```

**Q.3** <u>Write a program to generate a following @'s triangle:</u>

```
@ @ @ @ @
@ @ @ @
@ @ @
@ @
@
```

**Q.4** <u>Write a program to generate a following #'s triangle:-</u>

```
#
# #
# # #
# # # #
# # # # #
```

## Q.5  Write a program to generate a following @'s triangle:

```
        @
       @ @
      @ @ @
     @ @ @ @
    @ @ @ @ @
```

## Q.6  Write a program to generate a following numbers structure:

```
12345
12345
12345
12345
12345
```

## Q.7  Write a program to generate a following numbers structure:

```
54321
54321
54321
54321
54321
```

## Q.8  Write a program to generate a following numbers structure:

```
55555
44444
33333
22222
11111
```

**Q.9** Write a program to generate a following numbers structure:

```
11111
22222
33333
44444
55555
```

**Q.10** Write a program to generate a following numbers structure:

```
1
12
123
1234
12345
```

**Q.11** Write a program to generate a following numbers structure:

```
12345
1234
123
12
1
```

**Q.12** Write a program to generate a following numbers structure:

```
        1
      1 2
    1 2 3
  1 2 3 4
1 2 3 4 5
```

**Q.13** Write a program to generate a following numbers structure:

```
54321
4321
321
21
1
```

**Q.14** Write a program to generate a following numbers structure:

```
1
21
321
4321
54321
```

**Q.15** Write a program to generate a following numbers structure:

```
12345
1234
123
12
1
```

**Q.16** Write a program to generate a following numbers structure:

```
1 2 3 4 5
 1 2 3 4
  1 2 3
   1 2
    1
```

**Q.17** Write a program to generate a following numbers structure:

```
        1
       121
      12321
     1234321
    123454321
```

**Q.18** Write a program to generate a following numbers structure:

```
    123454321
     1234321
      12321
       121
        1
```

**Q.19** Write a C program to print the following triangle:

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

**Q.20** Write a C program to print Floyd's triangle:

```
1
2 3
4 5 6
```

```
        7 8 9 10
```

**Q.21** <u>Write a C program to print Pascal triangle:</u>

```
        1
       1 1
      1 2 1
     1 3 3 1
```

**Q.22** <u>Write a C program to print following character triangle:</u>

```
        A
        B B
        C C C
        D D D D
```

**Q.23** <u>Write a C program to print following character triangle:</u>

```
         A
        A B A
       A B C B A
      A B C D C B A
     A B C D E D C B A
```

**<u>Q.24</u>**

```
        A B C D E D C B A
          B C D E D C B
            C D E D C
              D E D
                E
```

**Q.25** <u>Write a c program for following number structure:</u>

```
1
2 2
3 3 3
4 4 4 4
5 5 5 5 5
4 4 4 4
3 3 3
2 2
1
```

## Q.26  Write a C program to display the string "INDIA" in following fashion:

```
I
IN
IND
INDI
INDIA
INDIA
INDI
IND
IN
I
```

## Q.27 Write a C program to display the following character structure:

```
A
BB
CCC
DDDD
CCC
BB
A
```

## Q.28 Write a C program to display the following number triangle:

```
1
2 2
3 3 3
4 4 4 4
5 5 5 5 5
```

## Q. 29 Write a C program display the following number structure:

```
123454321
 2345432
  34543
   454
    5
```

## Q.30. Write a C program to display the following number triangle structure:-

```
    1
   21
  321
 4321
54321
```

## Q.31. Write a C program to display the following number triangle structure:

```
54321
 4321
  321
   21
    1
```

**Q.32** Write a C program to print the following number pyramid:

```
        1
       2 2
      3 3 3
     4 4 4 4
    5 5 5 5 5
   6 6 6 6 6 6
```

**Q.33** Write a C program to print the following number structure:

```
        1
       1 2
      1 2 3
     1 2 3 4
    1 2 3 4 5
   1 2 3 4 5 6
```

**Q. 34** Write a C program to display the following rhombus symbol structure:

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

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

## Q. 35 Write a C program to display the following number rhombus structure:

```
   1
  212
 32123
4321234
 32123
  212
   1
```

## Q. 36 Write a C program to display the following number rhombus structure:

```
   1
  121
 12321
1234321
 12321
  121
   1
```

## Q.37 Write a C program to display the following character rhombus structure:

```
   A
  ABA
 ABCBA
ABCDCBA
```

```
ABCBA
 ABA
  A
```

## Q.38 [Write a C program to display the following square character triangle:](#)

```
   A
  ABA
 ABCBA
ABCDCBA
```

## Q.39 [Write a C program to display the following square character triangle:](#)

```
ABCDCBA
 ABCBA
  ABA
   A
```

## Q.40 [Write a C program to display the following square character triangle:](#)

```
    A
   AB
  ABC
 ABCD
ABCDE
 ABCD
  ABC
   AB
    A
```

## Q.41 [Write a C program to display the following square character triangle:](#)

```
A
BA
CBA
DCBA
EDCBA
DCBA
CBA
BA
A
```

## Q.42 Write a C program to print the following character triangle:

```
EDCBA
DCBA
CBA
BA
A
```

## Q.43 Write a C program to print the following number design/triangle:

```
9
0 1
2 3 4
5 6 7 8
9 0 1 2 3
```

## Q. 44 Write a C program to print the following number rectangle:

```
12344321
```

```
123__321
12____21
1_____1
```

**Q. 45** Write a C program to print the following number pyramid or number structure:

```
          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
```

**Q. 46** Write a C program for print the following number pyramid:

```
123456654321
1234554321
12344321
123321
1221
11
```

**Q. 47** Write a C program for print the following character pyramid:

```
ABCDEFFEDCBA
ABCDEEDCBA
ABCDDCBA
ABCCBA
```

```
ABBA
AA
```

## Q. 48 Write a C program to print the following number pyramid:

```
        1
      222
    33333
   4444444
  555555555
```

## Q. 49 Write a C program to print the following number triangle:

```
9
898
78987
6789876
```

## Q. 50 Write a C program to print the following number triangle:

```
5
45
345
2345
12345
```