1.Right Angle Triangle Patterns

In [249…
```
for i in range(1,6):
    print(' * ' * i)
```

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

2.Inverted Right Angle Triangle Pattern

In [252…
```
for i in range(5,0,-1):
    print(' * ' *i)
```

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

3.Pyramid Pattern

In [257…
```
for i in range(1,6):
    print(''*(5-i) + ' * ' * (2*i-1))
```

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

4.Inverted Pyramid Pattern

In [270…
```
for i in range (5,0,-1):
    print(''*(5-i)+'*'*(2*i-1))
```

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

5.Diamond Pattern

In [274…
```
for i in range(1,6):
    print(''*(5-i)+ ' * '* (2*i-1))

for i in range(4,0,-1):
    print(''*(5-i)+' * '*(2*i-1))
```

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

6.Hallow Square Pattern

In [226…
```
for i in range(5):
    for j in range(5):
        if i == 0 or i == 4 or j == 0 or j == 4:
            print('*', end=' ')
        else:
            print(' ', end=' ')
    print()
```

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

7.Full Square Pattern

In [228…
```
for i in range(5):
    print(' * '*5)
```

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

8.Right Angle Triangle(Number Pattern)

In [221…
```
for i in range(1,6):
    print(' '.join(str(x) for x in range(1,i+1)))
```

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

9.Inverted Right Angle Triangle(Number Pattern)

In [216…
```
for i in range(5,0,-1):
    print(' '.join(str(x) for x in range(1,i+1)))
```

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

10.Floyd's Triangle

In [209…

```
num = 1

for i in range(1,6):

    for j in range(1,i+1):
        print(num,end=' ')
        num += 1
    print()
```

```
1
2 3
4 5 6
7 8 9 10
11 12 13 14 15
```

11.Hallow Right Angle Triangle

In [204…

```
n = 5

for i in range(1,6):

    for j in range(1,i+1):
        if j == 1 or j == i or i == 5:
            print('*',end=' ')

        else:
            print(' ', end=' ')
    print()
```

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

12.Hallow Pyramid Pattern

In [194…

```
n = 5

for i in range(1,6):

    for j in range(5-i):
        print(' ',end=' ')

    for j in range(2*i-1):
        if j == 0 or j == 2 * i-2 or i == 5:
            print('*',end=' ')

        else:
            print(' ', end=' ')

    print()
```

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

13.Hallow Diamond Pattern

In [185…

```
n = 5

for i in range(1, n + 1):

    for j in range(n-i):
        print(' ',end=' ')

    for j in range(2*i-1):
        if j == 0 or j==2 * i-2:
            print('*',end=' ')

        else:
            print(' ', end=' ')

    print()

for i in range(n-1,0,-1):

    for j in range(n-i):
        print(' ',end=' ')

    for j in range(2*i-1):
        if j == 0 or j==2 * i-2:
            print('*',end=' ')

        else:
            print(' ', end=' ')

    print()
```

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

14.Hallow Diamond(Number Pattern)

In [183…

```
n = 5

for i in range(1, n + 1):

    for j in range(n-i):
        print(' ',end=' ')

    for j in range(2*i-1):
        if j == 0 or j==2 * i-2:
            print(i,end=' ')

        else:
            print(' ', end=' ')

    print()

for i in range(n-1,0,-1):
```

```
    for j in range(n-i):
        print(' ',end=' ')

    for j in range(2*i-1):
        if j == 0 or j==2 * i-2:
            print(i,end=' ')

        else:
            print(' ', end=' ')

    print()
```

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

15.Butterfly Pattern

In [169…

```
n = 5

for i in range(1, n + 1):

    for j in range(1,i+1):
        print(j,end=' ')

    for j in range(2*(n-i)):
        print(' ', end=' ')

    for j in range(1,i+1):
        print(j,end=' ')

    print()

for i in range(n,0,-1):

    for j in range(1,i+1):
        print(j,end=' ')

    for j in range(2*(n-i)):
        print(' ', end=' ')

    for j in range(1,i+1):
        print(j,end=' ')
    print()

n = 5

for i in range(1, n + 1):

    for j in range(1,i+1):
        print(j,end=' ')

    for j in range(2*(n-i)):
```

```
        print(' ', end=' ')

    for j in range(1,i+1):
        print(j,end=' ')

    print()

for i in range(n,0,-1):

    for j in range(1,i+1):
        print(j,end=' ')

    for j in range(2*(n-i)):
        print(' ', end=' ')

    for j in range(1,i+1):
        print(j,end=' ')
    print()
```

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

16.Hallow Number Pyramid

In [167…

```
n = 5

for i in range(1, n + 1):

    for j in range(n-i):
        print(' ',end=' ')

    for j in range(1,2*i):
        if j == 1 or j == 2 * i - 1 or i == n:
            print(i, end=' ')
        else:
            print(' ', end=' ')
    print()
```

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

17.Full Star Pyramid

In [150…

```
n = 5

for i in range(1, n + 1):

    for j in range(n - i):
        print(' ', end=' ')

    for j in range(2 * i - 1):
        print('*', end=' ')

    print()
```

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

18.Inverted Full Star Pyramid

In [144…

```
n = 5

for i in range(n, 0, -1):

    for j in range(n - i):
        print(" ", end=" ")

    for j in range(2 * i - 1):
        print("*", end=" ")

    print()
```

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

19.Left Aligned Pyramid Pattern

In [131…

```
n=5

for i in range(1, n+1):

    for j in range(i):
        print('*',end=' ')

    print()
n=5
for i in range(1, n + 1):

    for j in range(1, i + 1):
```

```
        print(j, end=' ')

    print()
```

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

20.Right Aligned Pyramid Pattern

In [137…

```
n = 5
for i in range(1, n + 1):

    for j in range(n - i):
        print(' ', end='')

    for j in range(1, i + 1):
        print(j, end='')

    print()

n = 5

for i in range(1, n + 1):

    for j in range(n - i):
        print(' ', end='')

    for j in range(i):
        print('*', end='')

    print()
```

```
    1
   12
  123
 1234
12345
    *
   **
  ***
 ****
*****
```

In [ ]: