1. Right Angle Triangle Pattern

2. Inverted Right Angle Triangle Pattern

3. Pyramid Pattern

4. Inverted Pyramid Pattern

```
In [6]: for i in range (5,0,-1):
    print(''*(5-i)+' * ' *(2*i-1))

* * * * * * * * * *

* * * * * * *

* * * * *

* * * * *

* * * * *
```

5. Diamond Pattern

6. Hallow Square Pattern

7. Full Square Pattern

8. Right Angle Triangle (Number Pattern)

```
In [13]: for i in range(1,6):
    print(' '.join(str(x) for x in range(1,i+1)))
```

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

9. Inverted Right Angle Triangle (Number Pattern)

10. Floyd's Triangle

11 Hallow Right Angle Triangle

12. Hallow Pyramid Pattern

```
In [18]: 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 [19]: 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='')
                      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()
```

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14. Hallow Diamond (Number Pattern)

```
In [20]: 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
        22
```

1

Buttefly Pattern

```
In [24]: 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 i 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(i):
        print('*',end=' ')
    for j in range(2*(n-i)):
        print(' ',end=' ')
    for j in range(i):
        print('*',end=' ')
    print()
for i in range(n,0,-1):
        for j in range(i):
            print('*',end=' ')
        for j in range(2*(n-i)):
            print('',end=' ')
        for j in range(i):
            print('*',end=' ')
        print()
for i in range(n,0,-1):
    for j in range(i):
        print('*',end=' ')
    for j in range(2*(n-i)):
        print(' ',end=' ')
    for j in range(i):
        print('*',end=' ')
    print()
```

```
7
1
1 2
               5 5
1 2 3
             3 3 3
1 2 3 4
           1 1 1 1
1 2 3 4 5 5 5 5 5 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
```

16. Hallow Number Pyramid

```
In [26]: 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()
```

17. Full Star Pyramid

18. Inverted Full Star Pyramid

19. Left Aligned Pyramid Pattern

20. Right Aligned Pyramid Pattern

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