1. Right Angle Triangle Pattern

```
In [59]: for i in range(1,6):
    print(' * ' *i)

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

2. Inverted Right Angle Triangle Pattern

```
In [57]: for i in range(5,0,-1):
    print(' * ' *i)

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

3. Pyramid Pattern

4.Inverted Pyramid Pattern

```
In [53]: for i in range (5,0,-1):
    print(''*(5-i)+' * ' *(2*i-1))

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```

5. Diamond Pattern

6.Hallow Square Pattern

7. Full Square Pattern

8. Right Angle triangle (Number Pattern)

```
In [45]: 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 5 1 2 3 4 5
```

9. Inverted Right Angle Triangle(Number Pattern)

10.Floyd's triangle

11. Hallow Right Angle Triangle

```
In [79]: 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()
*

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```

12. Hallow Pyramid Pattern

```
In [103...
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 [106...
          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)

```
n = 5
In [110...
          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()
```

15. Butterfly Pattern

```
n = 5
In [115...
          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(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()
```

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

      1
      2
      3
      4
      5
      1
      2
      3
      4
      5

      1
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      4
      5
      1
      2
      3
      4
      5

      1
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      4
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      5

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      4
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      4
```

16. Hallow Number Pyramid

```
In [119...
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

18.Inverted Full Star Pyramid

19.Left Aligned Pyramid Pattern

20. Right Aligned Pyramid Pattern

print()

1

1 2

1 2 3

1 2 3 4

1 2 3 4 5

*

* *

* *