

1) Right Angle Triangle Pattern

```
for i in range(1,6):
    print('* ' * i)
```

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

2) Inverted Right Angle Triangle Pattern

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

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

3) Pyramid Pattern

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

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

4) Inverted Pyramid Pattern

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

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

#5) Diamond Pattern

```
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

```
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

```
for i in range(5):
    print('* ' * 5)
```

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

```

* * * * *
* * * * *
* * * * *

```

```

#8) Right Angle Triangle(number pattern)
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)
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
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
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
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
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()

```

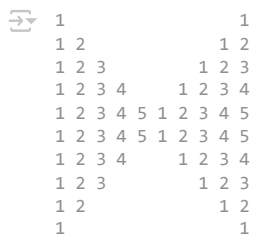


#14) Butterfly Pattern

```

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()

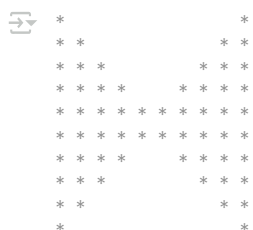
```



```

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

```



```
#16) Hallow Number Pyramid
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
```

```
#17) Full Star Pyramid
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
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
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
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-1):  
    print(' ',end=' ')  
for j in range(i):  
    print('*',end=' ')  
print()
```



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

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