PRINTING PATTERN IN PYTHON

In [1]:
```
print('****')
print('****')
print('****')
print('****')
```

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

In [3]:
```
for i in range(1,5):
    i=i+1
    print('####')
```

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

In [4]:
```
for i in range(1,5):
    if i<=5:
        print('# # # #')
```

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

In [5]:
```
for j in range(4):
    print('#')
```

```
#
#
#
#
```

In [6]:
```
for j in range(4):
```

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

```
# # # #
```

In [7]:
```
for i in range(4):
    print('#',end =' ')
for j in range(4):
    print('#',end =' ')
```

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

In [8]:
```
for i in range(4):
    print('#',end =' ')
print()
for j in range(4):
    print('#',end =' ')
```

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

In [9]:
```
for i in range(4):
    print('#',end =' ')
print()
for j in range(4):
    print('#',end =' ')
print()
for i in range(4):
    print('#',end =' ')
print()
for j in range(4):
    print('#',end =' ')
```

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

In [10]:
```
for i in range(4):
    for j in range(4):
        print('#',end=' ')
    print()
```

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

In [11]:
```
for i in range(4):
    for j in range(i+1):
        print('#',end=' ')
    print()
```

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

In [12]:
```
for i in range(1,5):
    print('#'*i)
```

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

In [13]:
```
list(range(5))
```

Out[13]:
```
[0, 1, 2, 3, 4]
```

In [14]:
```
for i in range(4):
    for j in range(i):
        print('#',end=' ')
    print()
```

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

In [15]:
```
for i in range(4):
    for j in range(i+1):
        print('#',end=' ')
    print()
```

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

In [16]:
```
for i in range(4):
    for j in range(4-i):
        print('#',end=' ')
    print()
```

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

In [25]:
```
for i in range(1,6):
    print(""*(5-i) + ' # '*(2*i-1))
```

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

4.inverted pyramid pattern

In [28]:
```
for i in range(5,0,-1):
    print(""*(5-i) + ' # '*(2*i-1))
```

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

5.diamond pattern

In [29]:
```
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 [31]:
```
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 [32]:
```
for i in range(5):
    print(' * '*5)
```

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

8.right angle triangle (number pattern)

In [33]:
```
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 [34]:
```
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 [35]:
```
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
```