1. Right Angle Triangle pattern

```
In [1]: for i in range(1,6):
            print(' * ' *i)
        2.Inverted Right Angle Triangle pattern
In [2]: for i in range(5,0,-1):
            print(' * ' *i)
        3.Pyramid Pattern
In [3]: for i in range (1,6):
            print(''*(5-i)+' * '*(2*i-1))
In [4]: for i in range(1, 6):
            print(' ' * (5 - i) + '* ' * (2 * i - 1))
          4. Inverted Pyramid Pattern
In [5]: for i in range (5,0,-1):
             print(''*(5-i)+' * '*(2*i-1))
In [6]: for i in range(5,0,-1):
            print(' ' * (5 - i) + '* ' * (2 * i - 1))
```

```
5.Diamond Pattern
In [8]: 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))
        *****
        *****
In [13]: n = int(input("Enter the number of rows (half of diamond height): "))
         # Upper half
         for i in range(n):
             print(' ' * (n - i - 1) + '* ' * (i + 1))
         # Lower half
         for i in range(n - 2, -1, -1):
             print(' ' * (n - i - 1) + '* ' * (i + 1))
```

```
6.Hallow Square Pattern
 In [9]: 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()
        *****
        *****
In [12]: size = int(input("Enter the size of the square: "))
         for i in range(size):
             for j in range(size):
                  # Print * for the borders
                  if i == 0 or i == size - 1 or j == 0 or j == size - 1:
                      print('*', end=' ')
                  else:
                      print(' ', end=' ')
             print()
         7.Full Square pattern
In [14]: for i in range(5):
             print('*'*5)
```

```
****
          8. Right Angle triangle (Number Pattern)
In [16]: 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 [17]: 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 [18]:
          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
In [19]: rows = int(input("Enter the number of rows: "))
          num = 1
          for i in range(1, rows + 1):
              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 [20]: rows = int(input("Enter the number of rows: "))
         for i in range(1, rows + 1):
              for j in range(1, i + 1):
                  # Print '*' at the borders or the last row
                  if j == 1 or j == i or i == rows:
                      print('*', end=' ')
                  else:
                      print(' ', end=' ')
              print()
         12. Hallow Pyramid Pattern
         rows = int(input("Enter the number of rows: "))
         for i in range(1, rows + 1): # Print leading spaces print(' ' * (rows - i), end='')
              for j in range(1, 2 * i):
                  # Print * at the edges or on the last row
                  if j == 1 or j == 2 * i - 1 or i == rows:
                      print('*', end='')
                  else:
                       print(' ', end='')
              print()
         13. Hallow Diamond Pattern
In [22]: rows = int(input("Enter the number of rows (half of diamond height): "))
         # Upper half
         for i in range(1, rows + 1):
              print(' ' * (rows - i), end='')
              for j in range(1, 2 * i):
                  if j == 1 or j == 2 * i - 1:
                      print('*', end='')
                      print(' ', end='')
              print()
         # Lower half
         for i in range(rows - 1, 0, -1):
```

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```
Python Pattern
             print(' ' * (rows - i), end='')
             for j in range(1, 2 * i):
                 if j == 1 or j == 2 * i - 1:
                      print('*', end='')
                 else:
                      print(' ', end='')
             print()
         14. Hallow Diamond (Number Pattern)
In [24]: rows = int(input("Enter the number of rows (half of diamond height): "))
         # Upper half
         for i in range(1, rows + 1):
             print(' ' * (rows - i), end='')
             for j in range(1, 2 * i):
                 if j == 1 or j == 2 * i - 1:
                     print(i, end='')
                 else:
                      print(' ', end='')
             print()
         # Lower half
         for i in range(rows - 1, 0, -1):
             print(' ' * (rows - i), end='')
             for j in range(1, 2 * i):
                 if j == 1 or j == 2 * i - 1:
                     print(i, end='')
                 else:
                      print(' ', end='')
             print()
            1
           2 2
          3 3
               5
         4
               4
          3
            3
           2 2
            1
         15.Butterfly Pattern
        rows = int(input("Enter the number of rows: "))
```

```
In [25]:
         # Upper half
         for i in range(1, rows + 1):
             # Left stars
             print('*' * i, end='')
```

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```
Python Pattern
   # Middle spaces
    print(' ' * (2 * (rows - i)), end='')
    # Right stars
    print('*' * i)
# Lower half
for i in range(rows, 0, -1):
   # Left stars
   print('*' * i, end='')
   # Middle spaces
   print(' ' * (2 * (rows - i)), end='')
    # Right stars
    print('*' * i)
     ***
16.Hallow Number Pyramid
```

```
In [26]: rows = int(input("Enter the number of rows: "))
         for i in range(1, rows + 1):
             # Print Leading spaces
             print(' ' * (rows - i), end='')
             for j in range(1, 2 * i):
                 # Print number only at borders or last row
                 if j == 1 or j == 2 * i - 1 or i == rows:
                     print(i, end='')
                 else:
                     print(' ', end='')
             print()
            1
           2 2
```

3 3 55555555

17.Full Star pyramid

```
In [27]: rows = int(input("Enter the number of rows: "))
         for i in range(1, rows + 1):
             # Print Leading spaces
             print(' ' * (rows - i), end='')
             # Print stars with spaces
             print('* ' * i)
```

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

18.Inverted Full Star pyramid

```
In [29]: rows = int(input("Enter the number of rows: "))

for i in range(rows, 0, -1):
    # Print Leading spaces
    print(' ' * (rows - i), end='')

# Print stars with spaces
    print('* ' * i)

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

19.left Aligned pyramid Pattern

```
In [30]:
    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
In [32]: rows = int(input("Enter the number of rows: "))
         for i in range(1, rows + 1):
             print('* ' * i)
         20. Right Aligned pyramid Pattern
In [33]: rows = int(input("Enter the number of rows: "))
         for i in range(1, rows + 1):
             # Print spaces first
              print(' ' * (rows - i), end='')
             # Then print stars
              print('*' * i)
 In [ ]:
```