

Telegram - Coders\_place

# PYTHON PATTERN

## Program on NUMBERS

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### 1. Simple Number Triangle.

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

Program -

```
rows = 6
for num in range(rows):
    for i in range(num):
        print(num, end=" ")
    print("\n")
```

### 2. Inverted Pyramid.

```
1 1 1 1 1
2 2 2 2
3 3 3
2 2
1
```

Program :-

```
rows = 5
b = 0
for i in range(rows, 0, -1):
    bt = 1
    for j in range(rows, 1, i+1):
        print(b, end=" ")
    print('\n')
```

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## 3. Half Pyramid Pattern.

```

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

```

Program:-

rows = 5

```

for row in range(1, rows+1):
    for c in range(1, row+1):
        print(c, end=" ")
    print("\n")

```

## 4. Inverted Pyramid Pattern

```

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

```

Pattern: Code:-

rows = 5

```

for i in range(rows, 0, -1):
    num = i
    for j in range(0, i):
        print(num, end=" ")
    print("\n")

```

## 5. Reverse Pyramid.

```

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

```

Code:-

rows = 5

```

for r in range(1, rows):
    for c in range(r, 0, -1):
        print(c, end=" ")
    print("\n")

```



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## 6. Inverted half pyramid

0 1 2 3 4 5

0 1 2 3 4

0 1 2 3

0 1 2

0 1

rows = 5

```
for i in range(rows, 0, -1):
```

```
    for j in range(0, i):
```

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

```
    print('\n')
```

## 7. Pyramid of Natural Numbers. less than 10.

1

2 3 4

5 6 7 8 9

Program

CuNum = 1

S = 2

r = 3

```
for i in range(r):
```

```
    for c in range(1, S):
```

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

```
        CuNum += 1
```

```
    print(' ')
```

```
    S += 2
```

## 8. Inverted Pyramid of the same digit

5 5 5 5 5

5 5 5 5

5 5 5

5 5

5

r = 5

n = r

```
for i in range(r, 0, -1):
```

```
    for j in range(0, i):
```

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

```
    print('\n')
```

## 9. Mirrored Pyramid.

```

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

```

Program:-

```

r = 5
for r in range(1, r+1):
    num = 1
    for j in range(rows, 0, -1):
        if j > row:
            print(" ", end=" ")
        else:
            print(num, end=" ")
            num += 1
    print("\n")

```

## 10. Full Pyramid of Numbers:-

```

      1
    2 3 2
  3 4 5 4 3
4 5 6 7 6 5 4
5 6 7 8 9 8 7 6 5

```

Program:-

```

rows = 5
K = 0
C = 0
C1 = 0
for i in range(1, rows+1):
    for s in range(1, (rows-i)+1):
        print(" ", end=" ")
    count = 1

```



```
while k!==(2*i)-1:
    if count < rows-1:
        print(i+k, end=" ")
        count += 1
    else:
        ci += 1
        print(i+k-(2*ci), end=" ")
    k += 1
ci = c = k = 0
print()
```

C, Cpp, java, python Handwritten

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