PYTHON Pattern Prog. on Num.

ATUL KUMAR (LINKEDIN).
NOTES GALLERY (TELEGRAM).

1. Simple Number Triangle

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

Program :-

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

2. Inverted Pyramid

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

Program :-

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

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 (" ")
```

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("\r")
```

5. **Reverse Pyramid**

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

Code :-

```
rows = 6
for r in range(1 , rows):
for c in range(r, 0, -1 ):
print(c, end," ")
print("  ")
```


6. **Half Inverted 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 +1 ):
print (j, end=' ')
print ('\r' )
```

7. **Pyramid of Natural numbers less than 10.**

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

Program:-

```
cumNum = 1
s = 2
r = 3
for i in range( r ):
for c in range(1, 5 ):
Print(cumNum, end=' ')
cumNum t = 1
Print(" ")
st = 2
```


8. **Mirrored Pyramid**

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

Program:-

```
r = 6
for r in range (1, r ):
num = 1
for j in range (rows,0,-1) :
if j > row :
Print(" ",end=' ')
else :
print(num,end=" ")
num t = 1
Print(" ")
```

9. **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 ('\r')
```


10. **Full Pyramid of Number.**

```
        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-1)+1):
print (" ", end=" ")
count t = 1

While K1 =((2 * i ) - 1 ):
if count < rows -1
print(i + K, end=" ")
Count + = 1
else :
    C1 + = 1
    print(i + K - (2 * C1 ), end=" ")
    K + = 1
    C1 = C = K = 0
    Print( )
```