

simple pyramid pattern

(1)

```
def pypart(n):
```

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

```
        for j in range(0, i+1):
```

```
            print("x", end=" ")
```

```
        # ending line after each row
```

```
        print("\n")
```

```
# Driver code
```

```
n=5
```

```
pypart(n)
```

range() function returns a sequence of numbers, starting from 0 by default and increments by 1 (by default) and stops before a specified number.

Using recursion

```
def pypart(n):
```

```
    if n==0:
```

```
        return
```

```
    else:
```

```
        pypart(n-1)
```

```
        print("x" * n)
```



Height) 2459

Diamond wdg

$n=5$

`Pypart(n)`

Using while loop

$n=5$

$i=1; j=0$

`while (i <= n):`

`while (j <= i-1):`

`print (" ", end = " ")`

`j += 1`

`print ("|x")`

`j = 0 ; i += 1`

After 180 rotation

`def Pypart2(n):`

$k = 2 * n - 2$ # number of spaces

`for i in range(0, n):` # no. of rows

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

`print (end = " ")`

$k = k - 2$

`for j in range(0, i+1)`

`print ("x", end = " ")`



```
print *["\n"]
```

Driver code

$n = 5$

`pypart2(n)`

Printing Triangle



```
def triangle(n):
```

$k = n - 1$ # number of spaces

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

```
    for j in range(0, k):
        print(end=" ")
```

$k = k - 1$

```
    for j in range(0, i + 1):
```

```
        print("x", end=" ")
```

```
    print("\n")
```

Driver code

$n = 5$

`triangle(5)`

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

def numpat(n):

num = 1

for i in range(0, n):

num = 1

for j in range(0, i+1):

print(num, end=" ")

num = num + 1

print("\n")

Driver code

n = 5

numpat(n)

Number without reassigning

1
 2 3
 4 5 6
 7 8 9 10
 11 12 13 14 15

def continum(n):

num = 1

for i in range(0, n):

for j in range(0, i+1):

print(num, end=" ")

num = num + 1

print("\n")

Driver Code.

n = 5

BB

CCC

DDDD

EEEE

def alphapat(n):

(3)

num = 65

for i in range(0, n):

for j in range(0, i+1):

ch = chr(num)

print(ch, end=" ")

num = num + 1

print("\n")

Driver code

n = 5

alphapat(n)

Continuous character pattern

A

BC

DEF

GHIJ

KLMNO

def contalpha(n):

num = 65

for i in range(0, n):

for j in range(0, i+1):

ch = chr(num)

print(ch, end=" ")

num = num + 1

print("\n")

n = 5

contalpha(n)