

22-09-2025 Monday

```

  * *
 * * *
* * * *

```

for space
i=1
j=5,4,3,2 → spaces

i=2
j=5,4,3
---*

i=3
j=5,4
--*

i=4
j=5
-*

i=5
j=0
*

i = for rows
j = for space
k = for *

```

for i in range(1,6,-1):
    for j in range(5,i,-1):
        print(" ",end=" ")
    for k in range(1,i+1,1):
        print("*",end=" ")
    print()

```

5 = 5, 4, 3, 2
space
i = *

one one space
is enough
either start to end
calculate the space

for printing *

i=1 1, 2 *
* = i+1 = 2 1, 3 * *
* = i+2 = 3 1, 4 * * *
* = i+3 = 4 1, 5 * * * *

i = 1, 2, 3, 4, 5

i=1 j = (5, i, -1) = 5, 4, 3, 2

-----* k = (1, i+1, 1) = 1, 2 = 1

i=2 j = 5, 2 = 5, 4, 3 ---*-* k = (1, 2+1, 1) *-* = 1, 2

i=3 j = 5, 3 = 5, 4 --*-*-* k = (1, 3+1, 1) = 1, 2, 3 *-*

i=4 j = 5, 4 = 5 -*-*-* k = (1, 4+1, 1) = 1, 2, 3, 4

i=5, j = 5, 5 = 0 ***** k = (1, 5+1, 1) 1, 2, 3, 4, 5
* * * * *

Mykoda

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* * * * *
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for i in range(1,6,1):
    for j in range(1,i+1,1):
        print("*",end=" ")
    print()

```

To print Triangle

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for x in range(1,5,1):
    for y in range(5,i,-1):
        print(" ",end=" ")
    print()

```

to print Triangle

△
i=1, 2, 3, 4, 5
i=1 j=1, 2
*
**

i=2 j=1, 2, 3
i=3 j=1, 2, 3, 4
i=4 j=1, 2, 3, 4, 5
i=5 j=1, 2, 3, 4, 5, 6
* * * * *
* * * * *
* * * * *
* * * * *

↓ ing Δ
i=1, 2, 3, 4

i=1
y=5, 4, 3, 2
* * * *

i=2
y=5, 4, 3
* * *

i=3
y=5, 4
* *

i=4
y=5
*

```

*
* *
* * *
* * * *
* * * * *
* * * * *
* * *
* *
*

```

$$i=1$$

$$* \text{-----} * \quad 2*(5-1)=8$$

$$i=2$$

$$* * \text{-----} * * \quad 2*(5-2)=6$$

$$i=3$$

$$* * * \text{-----} * * * \quad 2*(5-3)=4$$

$$i=4$$

$$i=5 \quad 2*(5-5)=0$$

for i in range(1, 6, 1):

print(" " * i, end=" ") # starting point star *

print(" " * (2*(5-i)), end=" ") 5 = no. of rows

print(" " * i, end=" ") # end point star *

print("") → It will come to the next line
 & again go & increment the i value.

for j in range(4, 0, -1):

print(" " * j, end=" ")

print(" " * (2*(5-j)), end=" ")

print(" " * i, end=" ")

print("")

$$j = 4, 3, 2, 1$$

$$j=4$$

$$2*(5-4)=2 \quad * * * * \text{---} * * * *$$

$$j=3$$

$$2*(5-3)=4 \quad * * * \text{---} * * *$$

$$j=2$$

$$2*(5-2)=6 \quad * * \text{---} * *$$

$$j=1$$

$$2*(5-1)=8 \quad * \text{---} *$$

OR

for i in range(1, 6, 1):

print(" " * i, " " * (2*(5-i)), " " * i, end=" ")

print("") → to print in next line

for j in range(4, 0, -1):

print(" " * j, " " * (2*(5-j)), " " * i, end=" ")

print("")