22/09/2025, monday.

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

i: 1, 2, 3, 4, 5.

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

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

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

i = 3
j = 5, 4, 3

i = 4
j = 5, 4

i = 5
j = 5

(1, 1+1, 1) (1, 2, 1) [1 time only print]

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

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

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

For increasing Δle
i = 1, 2 3 4 5

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

For decreasing Δle

x = 1 2 3 4

x = 1   x = 2   x = 3   x = 4
y = 5 4 3 2   y = 5 4 3   y = 4 3   y = 2

Butterfly pattern:

```
for i in range (1, 6, 1):          →to continue.
    print ("*" * i, end = " ")          # Starting point star
    print (" " * (2*(5-i)), end = " ")  # This print is used to leave space b/w
                                        # 2 star
    print ("*"*i, end = " ")            # ending point star
    print (" ")

for j in range (4, 0, -1):
    print ("*"*j, end = " ")
    print (" " * (2*(5-j)), end=" ")
    print ("*"*j, end = " ")
    print (" ")
```