

Day = 12

Date : 22-09-2025

-

Pattern

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

for loop

```
for i in range(1,6,1):
    for j in range(5,0,-1):
        print(" ", end=" ")
    for k in range(1,i+1,1):
        print("*", end=" ")
    print()
```

```
i = 1
while i <= 5:
    j = 1
    while j > i:
        print(" ", end=" ")
        j = j - 1
    k = 1
    while k <= i:
        print("*", end=" ")
        k = k + 1
    print()
    i = i + 1
```

- Pattern -

```

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

for loop:

```

for i in range(1,8,1):
    for j in range(1,i,1):
        print("*",end=" ")
    print()

for i in range(1,7,1):
    for j in range(7,i+1,-1):
        print("*",end=" ")
    print()
  
```

While loop

```

i=1
while i <= 7:
    j=1
    while j <= i:
        print("*",end=" ")
        j=j+1
    print()
    i=i+1

i=1
while i <= 7:
    j=6
    while j >= i:
        print("*",end=" ")
        j=j+1
    print()
    i=i+1
  
```

- pattern:

```

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


for loop :

```
for i in range(1,6,1):  
    print("#" * i, end=" ")  
    print(" " * (2 * (5 - i)), end=" ")  
    print("#" * i, end=" ")  
    print()
```

for j i range(4,0,-1)

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

while loop:

i = 1

while i <= 5:

```
    print("#" * i, end=" ")  
    print(" " * (2 * (5 - i)), end=" ")  
    print("#" * i, end=" ")  
    print()  
    i = i + 1
```

j = 4

while j > 0:

```
    print("#" * j, end=" ")  
    print(" " * (2 * (5 - j)), end=" ")  
    print("#" * j, end=" ")  
    print()  
    j = j - 1
```