

Pattern

1) for i in range(1,5):
 for j in range(1, i+1):
 print("* ", end=" ")
 print("\n")

2) for i in range(1,5):
 for j in range(1,4):
 print(j, end=" ")
 print("\n")

3) for i in range(1,4):
 for j in range(1, i+1):
 print(j, end=" ")
 print("\n")

4) x=7
 for i in range(1,4):
 for j in range(1, i+1):
 print(x, end=" ")
 x=x-1
 print("\n")

5) for i in range(1,5):
 x=65
 for j in range(1, i+1):
 print(x, end=" ")
 x=x+1
 print("\n")

6) x=1
 for i in range(1,5):
 for j in range(1, i+1):
 print(x, end=" ")
 x=x+1
 print("\n")

7) for i in range(1,6):
 ch='A'
 for j in range(1, i+1):
 print(chr(ch), end=" ")
 ch=ch+1
 print("\n")

1 2 3

1 2 3

1 2 3

1 2 3

4

1 2

1 2 3

7

6 5

4 3 2

6 5

6 6 6 6

6 5 6 6 6 7

6 5 6 6 6 7 6 8

1

2 3

2 5 6

7 8 9 10

A

A B

A B C

A B C D

A B C D E

(8)

```

ch = 65
for i in range(1, 6):
    for j in range(1, i+1):
        print(chr(ch), end=" ")
    ch = ch + 1
    print("")

```

```

A
B B
C C C
D D D D
E E E E E

```

(9)

```

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

```

```

I - * *
- - * *
- * * *
* * * *

```

(10)

```

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

```

```

      1
     1 2
    1 2 3
   1 2 3 4

```

(11)

```

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

```

```

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

```

(12)

```

for i in range(5, 0, -1):
    ch = 65
    for j in range(1, i):
        print(" ", end=" ")
    for j in range(1, i+1):
        print(chr(ch), end=" ")
    ch = ch + 1
    print("")

```

```

A B C D E
  A B C D
   A B C
    A B
     A

```



```

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

```

```

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

```

```

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

```

```

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

```

```

(15) for i in range(1,6):
    ch = 'A'
    for j in range(1,6):
        print(ch, end=" ")
    for j in range(1, j+1):
        print(ch, end=" ")
    ch = ch + 1
    print("")

```

```

      A B C D E
    A B C D E
  A B C D E
A B C D E

```