Nested Loop

Loop inside another sloop.

```
for i in range ( ):
    for j in range():
        stmt of inner loop.
    stmt of outer loop.
```

OR

```
i=1
while ( i <= 5):
    j=1
    while ( j <= 5):
        print(r,j)
        j = j+1
    i = i+1
```

OR

```
for i in range(6):
    for j in range (6)
        print(i,j)
```

print() → it will go to next line without printing on the same line.

print (end = " ") → it will give a space

b/w each printing item. stays on the same line

\t → tab space

\n → next line.

outer loop controls the no. of rows

inner loop controls no. of columns

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

→ i in range (5) → 0,1,2,3,4
                    total 5 times
→ when i=0 → j runs 1 → print *
  when i=1 → j runs 2 → * *
  - -
  when i=4 → j runs 5 → * * * * *

if we write range (i) in for loop,

then i=0 → range (0) → print 0 stars

so i+1 ensures at one star in first line.

end = " " → prints star on same line

print () → move to next line

```
for i in range (5):
    print ("*" * (i+1))
```

OR

```
for i in range (1,6):
    print ("*" * i)
```

OR

```
for i in range (5):
    for j in range (i):
        print ("*", end = " ")
```