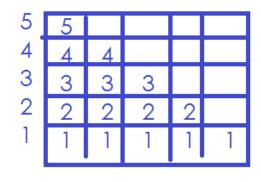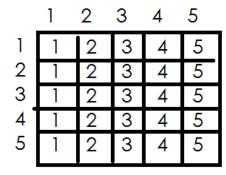|	1	2	3	4	5
1	1	1	1	1	1
2	2	2	2	2	2
3	3	3	3	3	3
4	4	4	4	4	4
5	5	5	5	5	5

```
for r in range(1,6): # 1 2 3 4 5
    for c in range(1,6): # 1 2 3 4 5
        print(r,end=' ')
    print()
```

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

```
for r in range(5,0,-1):
    for c in range(1,6):
        print(r,end=' ')
    print()
```

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

```
for r in range(1,6):  # 1 2 3 4 5
    for c in range(1,r+1): # 1 2
        print(r,end=' ')
    print()
```

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

```
for r in range(5,0,-1): # 5 4 3 2 1
    for c in range(r):
        print(r,end=' ')
    print()
```

Grid 1 (rows labeled 5,4,3,2,1 top to bottom):

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

```
for r in range(5,0,-1):
    for c in range(5,r-1,-1):
        print(r,end=' ')
    print()
```

Grid 2 (columns 1 2 3 4 5, rows 1 2 3 4 5):

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

```
for r in range(1,6): # 1 2 3 4 5
    for c in range(1,6): # 1 2 3 4 5
        print(c,end=' ')
    print()
```

Grid 3 (columns 1 2 3 4 5, rows 5 4 3 2 1 top to bottom):

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

```
for r in range(5,0,-1):
    for c in range(1,r+1):
        print(c,end=' ')
    print()
```

Grid 4 (columns 1 2 3 4 5, rows 1 2 3 4 5 top to bottom):

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

```
for r in range(1,6):
    for c in range(1,r+1):
        print(c,end=' ')
    print()
```

```
for r in range(5,0,-1):
    for c in range(1,6):
        if c>=r:
            print(c,end=' ')
        else:
            print(' ',end=' ')
    print()
```

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

```
for r in range(1,6):
    for c in range(1,6):
        if c>=r:
            print(c,end=' ')
        else:
            print(' ',end=' ')
    print()
```

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

```
for r in range(1,6):
    for c in range(5,0,-1):
        if c<=r:
            print(c,end=' ')
        else:
            print(' ',end=' ')
    print()
```

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

Nested while
While loop inside while is called nested while
Syntax:
while <condition>: # outer loop
    while <condition>: # inner loop
        statement-1
        statement-2