

25-09-25:-

Examples for Nested While Loops:-

^{pyramid}
Triangle pattern printing:-

```
for n in 5 # total rows
```

```
    i = 1 # outer loop variable
```

```
    while i <= n:
```

```
        j = 1 # first inner loop -> print spaces
```

```
        while j <= n - i:
```

```
            print(" ", end=" ")
```

```
            j += 1
```

```
        # second inner loop -> print stars
```

```
        k = 1
```

```
        while k <= i:
```

```
            print("*", end=" ") # star with space
```

```
            k += 1
```

```
        print() # move to Next row
```

```
        i += 1
```

o/p:

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

②. Multiplication Table (1 to 2)

```
i = 1
```

```
while i <= 2
```

```
    j = 1
```

```
    while j <= 3:
```

```
        print(i, '*', j, "=", i * j)
```

```
        j += 1
```

```
    print(" - - - ")
```

```
    i += 1
```

o/p

1 x 1 = 1

1 x 2 = 2

1 x 3 = 3

- - -

2 x 1 = 2

2 x 2 = 2

2 x 3 = 6



Triangle shape stars:

i = 1

while i <= 5:

j = 1

while j <= i:

print C * " ", end = " "

j += 1

print()

i += 1

Op:

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