

Day : 11

Date : 18/09/2025

### - Nested while loop

initialization of outer while

while (condition) : # outer while

initialization of inner while

while (condition) : # inner while

statement of inner while.

inc/dec of inner while.

statements of outer while.

inc/dec of outer while

It = space

\_\_/\_\_/

1. Multiplication table in while loop

i = 0

while i <= 10 :

j = 0

while j <= 5 :

print(i\*j, end=" ")

j = j + 1

print()

i = i + 1

2. Write a program to get the pattern

1 1 1 1 1

2 2 2 2 2

3 3 3 3 3

4 4 4 4 4

5 5 5 5 5

i = 1

while i <= 5 :

j = 1

while j <= 5 :

print(i, end=" ")

j = j + 1

print()

i = i + 1

for i in range(1, 6, 1):

for j in range(1, 6, 1):

print(i, end=" ")

print()

3. pattern :

```

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

```

while loop

```

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

```

for loop

```

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

```

4. pattern :

```

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

```

while loop :

```

i = 1
while i <= 6:
    j = 5
    while j >= i:
        print("*", end=" ")
        j = j + 1
    print()
    i = i + 1

```

for loop

```

for i in range(1, 7, 1):
    for j in range(5, i, -1):
        print("*", end=" ")
    print()

```



- pattern -

```

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

```

for loop

```
for i in range(1,6):
```

```
    for j in range(1,6):
```

```
        if (i==1 or i==5 or
            j==1 or j==5):
```

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

```
        else:
```

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

```
    print()
```

```
i=1
```

```
while i <= 5:
```

```
    j=1
```

```
    while j <= 5:
```

```
        if i==1 or i==5 or j==1 or j==5:
```

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

```
        else:
```

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

```
        j=j+1
```

```
    print()
```

```
    i=i+1
```