18-9-25

Nested **while** loop syntax:

Initialization of outer **while** loop
while (condition) : #outer while loop
    intialisation of inner **while** (#inner loop)
    while(condition): #inner while loop
        statementof inner **while**
        incrementation/decremantation of inner **while**'
    statements of outer loop
    inc/dec of inner loop

```python
#write 1 to 10 tables using while loop

i=1
while (i<=10):
    j=1
    while (j<=10):
        print(i*j,end="\t")
        j=j+1
    print()
    i=i+1
```

1	2	3	4	5	6	7	8	9	10
2	4	6	8	10	12	14	16	18	20
3	6	9	12	15	18	21	24	27	30
4	8	12	16	20	24	28	32	36	40
5	10	15	20	25	30	35	40	45	50
6	12	18	24	30	36	42	48	54	60
7	14	21	28	35	42	49	56	63	70

write a query to display like below

```
# 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 ="\t")
        j= j+1
    print ()
    i=i+1
```

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

[9]: #write a query to display like below

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

#in every j value it contains 1,2,3,4,5 etc..

```
[15]:  #write a progrem to display like this
       #*
       #* *
       #* * *
       #* * * *
       #* * * * *
       #method 1 direct

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

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

```
[17]:  #Method 2 for method

       for i in range (0,5,1): #i=0,1,2,3,4
           for j in range (0,i+1,1):
               print("*" ,end = " ")
           print()
```

[36]: #Try the same above star format method using while loop

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

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

[41]: # write a programme to display like this
#* * * * *
#* * * *
#* * *
#* *
#*


```python
# method 1 for loop while
i= 1                              # i= number of rows
while(i<=5):                      # j=number of elements(like 1,
    j = 5                         #   # j will start with 5 coz f
    while(j>=i):
        print("*" , end=" ")      #   # only j is decremnting i
        j =j-1
    print()
    i=i+1
```

Q Search

[58]:
```python
#method 2 using for loop
for i in range(0,5,1):
    for j in range (5,i,-1):
        print("*" ,end=" ")
    print()
```

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

[56]:
```python
#method 3:
for i in range(5,0,-1):
    print("* "*i)
```

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

```python
#write a program to display this graph
* * * * *
*       *
*       *
*       *
* * * * *

for i in range(0,5,1):
    for j in range(5,
```

[ ]: