

SEPTEMBER-23,2025

Write a syntax of a while loop inside a for loop:

Syntax:

for var in range():#outer loop

initialisation of while loop

while(condition):#inner loop

statements of inner loop

inc/dec of while loop

statements of outer loop

Write a syntax of a for loop inside a while loop:

Syntax:

initialisation of while loop

while(condition): #outer loop

for var in range():

statements of inner loop

statements of outer loop

inc/dec of while loop

1. Write a program to print

```

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

```

Code:

```

i = 1 while(i<=5):   for j in
range(1,6,1):       if(i==1 or i==5 or
j==1 or j==5):
    print("*",end = " ")
else:               print(" ",end
= " ")   print()   i = i+1

```

2. Write a program to print

```

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

```

Code: for i in

```

range(1,6,1):   j = 5

```

```
while(j>i):  
    print(" ",end="")  
    j=j-1    k=1  
    while(k<=i):  
        print(i,end = " ")  
        k = k + 1    print()  
    for i in range(4,0,-1):  
        j = 5    while(j>i):  
            print(" ",end="")  
            j=j-1    k=1  
            while(k<=i):  
                print(i,end=" ")  
                k = k + 1  
            print()
```