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

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```
1. Write a program to print
Code:
i = 1
while(i<=5):
  for j in range(1,6,1):
     if(i=1 \text{ or } i=5 \text{ or } j=1 \text{ or } j=5):
        print("*",end = " ")
     else:
        print(" ",end = " ")
  print()
  i = i+1
2. Write a program to print
   1
  2 2
 3 3 3
 4444
5 5 5 5 5
```

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```
4444
 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
```

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print()	