## Nested for loops

In [ ]:

Just like nested if statements, nested loops are also allowed and commonly used.

Write a program to accept an integer less than 10 (call this n) from the user and print a n by n box of \*'s

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In [6]:
. . .
Write the program using two for loops
n = int(input('Please enter an integer less than 10: '))
for i in range (1, n+1):
    for j in range(0, n):
       print('*', end='') #Note the end value in this print statement
    print() # What happens when you remove this print statement
Please enter an integer less than 10: 3
***
***
In [7]:
The above program can also be written using two while loops
n = int(input('Please enter an integer less than 10: '))
row indx = 1
col indx = 1
while row_indx <= n:</pre>
    while col_indx <= n:</pre>
      print('*', end='')
       col indx += 1
   print()
    col_indx = 1
    row indx += 1
Please enter an integer less than 10: 5
****
****
****
****
In [8]:
We can write the same program using one each of the for loop and the while loop
n = int(input('Please enter an integer less than 10: '))
col indx = 1
for row indx in range(1,n+1):
    while col_indx <= n:</pre>
       print('*', end='')
       col indx += 1
   print()
    col indx = 1
Please enter an integer less than 10: 4
****
****
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# Write the program with the for loop as the inner loop and the while loop as the outer loop