	Assignment-1
22]:	<pre>n = int(input("enter number of rows:")) for i in range(0, n+1): for j in range(0, n-i): print('5', end=' ') print()</pre>
	enter number of rows:5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
[3]:	<pre>n = int(input("enter number of rows:")) for i in range(n,0,-1): for j in range(0,i+1):</pre>
	<pre>print(j,end=' ') print() enter number of rows:5 0 1 2 3 4 5 0 1 2 3 4 0 1 2 3 0 1 2 0 1</pre> 3)
[4]:	
	1 33 55 7777 99999
[5]:	<pre>i = 6 for i in range(1,i): for j in range(i,0,-1): print(j,end=' ') print()</pre>
	1 2 1 3 2 1 4 3 2 1 5 4 3 2 1
21]:	<pre>a = 1 b = 2 int_number = b for i in range(2,6): for j in range(a,b): int_number -= 1 print(int_number ,end=" ") print() a = b b += i int_number = b</pre>
	1 3 2 6 5 4 10 9 8 7
[7]:	<pre>for i in range(0, n): for j in range(0, i + 1): print(function(i, j)," ", end = "") print() def function(n, k): res = 1 if (k > n - k): k = n - k for i in range(0, k): res = res * (n - i) res = res // (i + 1) return res n = 7 printPascal(n)</pre>
	1 2 1 1 3 3 1 1 4 6 4 1 1 5 10 10 5 1 1 6 15 20 15 6 1
[8]:	<pre>n = int(input("Enter the number of rows:")) for i in range(1, n+1): for j in range(1, n+1): if j<=i: print(i, end=' ') else: print(j, end=" ") print()</pre> Enter the number of rows:5 1 2 3 4 5
	2 2 3 4 5 3 3 3 4 5 4 4 4 4 5 5 5 5 5 5 8)
[9]:	<pre>for i in range(1, n+1): for j in range(1, i+1): print(i*j, end=' ') print()</pre> Enter the number of rows:8
	2 4 3 6 9 4 8 12 16 5 10 15 20 25 6 12 18 24 30 36 7 14 21 28 35 42 49 8 16 24 32 40 48 56 64 9)
10]:	<pre>n = 5 k = 2*n-2 for i in range(n, -1, -1): for j in range(k, 0, -1): print(end=" ") k = k + 1 for j in range(0, i + 1): print("*", end=" ") print(" ")</pre>
	* * * * * * * * * * * * * * * 10)
11]:	<pre>n = int(input("Enter the number of rows:")) m = 2*n-2 for i in range(0,n): for j in range(0,m): print(end=" ") m = m-1 for j in range(0, i + 1): print("*", end=" ") print(" ")</pre> Enter the number of rows:8 * * * * * * * * * * * * * * * * *
12]:	<pre> * * * * * * * * * * * * * * * * * * * * * 11) n = int(input("Enter the number of rows:"))</pre>
	<pre>#1st pattern for i in range(0,n): for j in range(0,i+1): print("*",end="") print("</pre>
	Enter the number of rows:7 * * * * * * * * * * * * * * *
20]:	<pre>t 12) def pattern(n): for i in range(0,n):</pre>
	<pre>for j in range(0,i+1): print("*",end=" ") print() for i in range(n, 0, -1): for j in range(0,i+1): print("*",end=" ") print() pattern(5)</pre>
	* * * * * * * * * * * * * * * * * * * * * * * * * * * * *
17]:	
	* * * * * * * * * * * * * * * * * * *
18]:	<pre>def pattern(n): # for loop for printing upper half for i in range(1, n + 1): for k in range(1, i): print(" ", end = "") for j in range(i, n + 1): print("*", end = " ") print()</pre>
	<pre># for loop for printing lower half for i in range(n - 1, 0, -1): for k in range(1, i): print(" ", end = "") for j in range(i, n + 1): print("*", end = " ") print()</pre>
	* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
19]:	print("*"*n, end="\n") i = (n // 2) -1
	<pre>i = (n // 2) -1 j = 2 while i !=0: while j <=(n -2): print("*" * i,end ="") print("_" * j,end ="") print("*" * i,end ="\n") i = i -1 j = j +2</pre>
	enter number of rows :15 ******* ****** ***** **** ***
[]:	**