Assignment 1	
Pattern Programming  1. 55555555555	
<pre>n [1]:</pre>	
5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	
2. 234501234012301201  n [2]: for i in range(6,1,-1):     for j in range(i):	
<pre>print(j, end=' ') print()  0 1 2 3 4 5 0 1 2 3 4 0 1 2 3</pre>	
0 1 2 0 1 3. 3555777799999	
<pre>n [3]: a = [1,3,5,7,9]     for i in range(0,len(a)):         for j in range(-1,i):             print(a[i], end=' ')             print()</pre>	
1 3 3 5 5 5 7 7 7 7 9 9 9 9 9	
1321432154321  n [4]: for i in range(0,6):     for j in range(i):         print(i-j, end=' ')	
print()  1 2 1 3 2 1 4 3 2 1 5 4 3 2 1	
5. 265410987 n [5]: a = 0	
<pre>for i in range(1,5):     a += i     b = a     for j in range(i):         print(b, end = ' ')</pre>	
b -= 1 print()  1 3 2	
6 5 4 10 9 8 7 6. L121133114641151010511615201561	
<pre>for i in range(0,7):     for j in range(0,1+1):         a = 1         if j &gt; i-j:</pre>	
<pre>a = a * (i - k) a = a // (k + 1) print(a, end = ' ') print()</pre>	
1 1 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	
7. 34522345333454444555555  n [7]: for i in range(1,6):     for j in range(1,6):	
<pre>if j &lt;= i:     print(i, end=' ')     else:         print(j, end=' ')     print()</pre>	
2 2 3 4 5 3 3 3 4 5 4 4 4 4 5 5 5 5 5 5	
1369481216510152025612182430367142128354249816243240485664  n [8]:	
1 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.	
<pre>for i in range(5,0,-1):     for j in range(10-i):         print(' ',end = '')     for j in range(i):         print('*', end = ' ')</pre>	
<pre>print()  * * * * *  * * * *  * * *  * *  * *</pre>	
10.  ***********************************	
<pre>for j in range(10-i-1):     print(' ', end = '')  for j in range(i+1):     print('*', end = ' ')  print() *</pre>	
11.  ********************************  [11]: for i in range(7):     for j in range(i):	
<pre>print('*', end = ' ') print()  for i in range(7,0,-1):</pre>	
<pre>if i == 7:     print()     continue for j in range(i):     print('*', end = ' ') print()</pre>	
* * * * * * * * * * * * *	
* * * * * *  * * * * * *  * * * * *  * * * *  * * * *	
* *  12.  ********************************	
<pre>for i in range(6):     for j in range(i):         print('*', end = ' ')     print()  for i in range(4,0,-1):</pre>	
<pre>for j in range(i):     print('*', end = ' ')     print() * * *</pre>	
* * * *  * * * *  * * * *  * * * *  * * *  * * *	
13.  *********  [13]: for i in range(5):	
<pre>for i in range(5):     for j in range(5-i-1):         print(' ', end = ' ')     for k in range(i+1):         print('*', end = ' ')     print()</pre>	
<pre>for i in range(4):     for j in range(i + 1):         print(' ', end = ' ')     for k in range(4,i,-1):         print('*', end = ' ')     print()</pre>	
<pre>print()      *     * *     * *     * *     * * *     * * *</pre>	
* * * *  * * *  * *  * *  * *  14.	
**************************************	
<pre>print('*', end = ' ') print()  for i in range(5):     for j in range(5-i-1):</pre>	
<pre>print(' ',end = '') for j in range(i+1):     print('*', end = ' ') print()  * * * * *</pre>	
* * *  * * *  * *  * *  *  *  *  *	
* * * *  * * * *  * * * *  15.  ********************************	
<pre>print('*' * 16, end = '\n') i = (16 // 2) - 1 j = 2 while i != 0:     while j &lt;= (16 - 2):</pre>	
<pre>print('*' * i, end = '') print('_' * j, end = '') print('*' * i, end = '\n') i = i - 1 j = j + 2</pre>	
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**** ** n []:	