

CSX3001/ITX3001
FUNDAMENTALS OF COMPUTER
PROGRAMMING

CLASS 06 CODE TRACING & FLOWCHART

PYTHON

Exercises

From the given code, what is/are the output(s):

1 2 3 4 5 6 7 8 9 10 11	<pre># Assume that n is an input from a user. n = 112 if n % 2 == 1: if n//100%2 == 1: print('YO') else: print('YE') else: if n%100//10%2 == 0: print('HEY') else: print('HA')</pre>	
1 2 3 4 5 6 7	<pre>A = True B = False C = False D = 1 < 5 print(A and B or not (A or D) and C) print((A and not A and not B) or not (not C or D)) print(not (not (not D)))</pre>	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	<pre>w = 8 if w < 10: print('Yes1') elif w < 20: print('Yes2') elif w < 30: print('Yes3') if w < 10: print('Yes1') if w < 20: print('Yes2') elif w < 30: print('Yes3')</pre>	
1 2 3 4 5 6 7 8 9 10	<pre>numbers = [6, 5, 3] mySum = 0 for val in numbers: print(mySum, val) mySum = mySum + val print(mySum, val) print('-----') print(f"The sum is {mySum}")</pre>	

1 2 3 4 5 6 7 8 9	<pre> i = 0 while True: i += 1 #print(i, end = ' ') if i == 2 or i == 5 or i == 7: continue print(i, end = ' ') if i == 15: break </pre>	
1 2 3 4 5 6 7 8	<pre> n = int(input('Enter n: ')) for i in range(0, n): for j in range(0, n): if j >= (n-1) - i: print('*', end = '') else: print(' ', end = '') print() </pre>	
1 2 3 4	<pre> #What is a condition (line#3) that prints 13,26,39? numList = [1,13,26,2,6,7,39,10,9] for i in numList: if _____ == 0: print(i, end = ' ') </pre>	
1 2 3 4 5 6 7 8	<pre> strList = ['10','4','6','3','7'] total = '' j = 0 for i in strList: if j % 2 == 0: total += i j += 1 print(total) </pre>	
1 2 3 4 5 6 7 8 9	<pre> s = 3 i = 1 while i < 10: if i > 10: print(i, end = ' ') s += 1 else: s += 2 i += s </pre>	
1 2 3 4 5 6 7	<pre> x,y = 5,5 for i in range(1,x): for j in range(1,y): if j + i - 1 > y - 1: print(j+i-y, end = ' ') else: print(j+i-1, end = ' ') </pre> <p>#What are the outputs if i and j are 1--4, 2--1 and 2--3?</p>	

1	i = 0	
2	while i < 3:	
3	j = 5	
4	while j > 1:	
5	x = i + j - 2	
6	if x % 2 == 0:	
7	j -= 1	
8	print(i,j,x, end = '----')	
9	else:	
10	j -= 2	
11	print(i,j,x, end = '----')	
	i += 1	
	print('inner i', i)	
	i += 1	
	print('outer i', i)	

Flowchart Exercises:





