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DEPARTMENT: COMPUTER SCIENCE (200 Level)

COURSE: FOUNDATIONS OF COMPUTER SCIENCE (CSC 242)

Assignment

Write 3 code snippet each in python that contains For loop, While loop, and the loop recursion.

Solutions

S/N	Loop Type	Code	Output
1		i = 1	1
		while i < 6:	2
		print(i)	3
		i += 1	4
			5
		i = 3	3
		while i < 9:	4
	FOR LOOP	print(i)	5
		i += 1	6
			7
			8
		i = 2	2
		while i < 4:	3
		print(i)	
		i += 1	
2		i, j, k, u = 0, 5, 1, 3	0
		for I in range(i, j, k):	1
		if l == u:	2
		print(I)	3
		u = 8	4
		i = 12	
		j = 7	
	WHILE LOOP	k = -1	
		else:	
		print(I)	
		i, j, k, u = 0, 5, 1, 3	0
		for l in range(i, j, k):	0
		if I == u:	0
		print(I)	3
		u = 8	12
		i = 12	
		j = 7	
		k = -1	
		else:	

ı		1	<u> </u>
		print(i)	
		<pre>i, j, k, u = 2, 5, 1, 3 for I in range(i, j, k): if I == u: print(I) u = 8 i = 12 j = 7 k = -1 else: print(k)</pre>	1 3 -1
3		<pre>def tri_recursion(k): if (k > 0): result = k + tri_recursion(k - 1) print(result) else: result = 0 return result print("\n\nRecursion Example Results") tri_recursion(6)</pre>	1 3 6 10 15 21
	LOOP RECURSION	<pre>def tri_recursion(k): if (k > 2): result = k + tri_recursion(k - 1) print(result) else: result = 0 return result print("\n\nRecursion Example Results") tri_recursion(4)</pre>	3 7
		<pre>def tri_recursion(k): if (k > 1): result = k + tri_recursion(k - 1) print(result) else: result = 2 return result print("\n\nRecursion Example Results") tri_recursion(7)</pre>	4 7 11 16 22 29