

WORKSHEET - LIST MANIPULATION

1	<p>What will be the output of following code-</p> <pre>list1=[1, 3, 2] list1 * 2</pre> <p>Ans:</p>
2	<p>What will be the output of following code-</p> <pre>l="Welcome to Python".split() l</pre> <p>Ans:</p>
3	<p>What will be the output of following code-</p> <pre>print([i.lower() for i in "HELLO"])</pre> <p>Ans:</p>
4	<p>What will be the output of following code-</p> <pre>a=[[1,2],[3,4],5],[6,7]] a[0][1][1]</pre> <p>Ans:</p>
5	<p>What will be the output of following code-</p> <pre>a,b=[3,1,2],[5,4,6] a+b</pre> <p>Ans:</p>
6	<p>What will be the output of following program:</p> <pre>a=[2,1,3,5,2,4] a.remove(2) a</pre> <p>Ans:</p>

7	<p>Explain List Comprehension and Elegant way to create new List:</p> <p>Ans:</p>
8	<p>What will be the output of following program: theList=[1, 2, [1.1, 2.2]] len(theList)</p> <p>Ans:</p>
9	<p>What will be the output of following program: my_list = ['p', 'r', 'o', 'b', 'l', 'e', 'm']</p> <p>print('p' in my_list)</p> <p>print('a' in my_list)</p> <p>print('c' not in my_list)</p> <p>Ans:</p>
10	<p>What will be the output of following program: for fruit in ['apple','banana','mango']: print("I like",fruit)</p> <p>Ans:</p>

11	<p>What will be the output of following program: pow2 = [2 ** x for x in range(10) if x > 5] pow2</p> <p>Ans:</p>
12	<p>What will be the output of following program: odd = [x for x in range(20) if x % 2 == 1] odd</p> <p>Ans:</p>
13	<p>What will be the output of following program: l=[x+y for x in ['Python ','C '] for y in ['Language','Programming']] l</p> <p>Ans:</p>
14	<p>What will be the output of following program: odd = [1, 9] odd.insert(1,3) print(odd) odd[2:2] = [5, 7] print(odd)</p> <p>Ans:</p>
15	<p>What will be the output of following program: odd = [1, 3, 5] print(odd + [9, 7, 5]) print(["re"] * 3)</p> <p>Ans:</p>
16	<p>What will be the output of following program: odd = [2, 4, 6, 8] odd[0] = 1 print(odd)</p>

	<pre>odd[1:4] = [3, 5, 7] print(odd)</pre> <p>Ans:</p>
17	<p>What will be the output of following program:</p> <pre>list1 = ["python", "list", 1952, 2323, 432] list2 = ["this", "is", "another", "list"] print(list1) print(list1[1:4]) print(list1[1:]) print(list1[0]) print(list1 * 2) print(list1 + list2)</pre> <p>Ans:</p>
18	<p>What will be the output of following program:</p> <pre>l=[10,20,30,40,50,60] for i in range(1,6): l[i-1]=l[i] for i in range(0,6): print(l[i],end="")</pre> <p>Ans:</p>
19	<p>What will be the output of following program:</p> <pre>l=[6,12,18,24,30] for i in l: for j in range(1,i%5): print(j,'#',end="") print()</pre> <p>Ans:</p>

20	<p>What will be the output of following program: names = ['Hardik', 'Virat', 'Rahul', 'Dhavan'] print(names[-1][-1])</p> <p>Ans:</p>
21	<p>What will be the output of following program: "Welcome to Python4csip.com".split()</p> <p>Ans:</p>
22	<p>What will be the output of following program: myList = [1, 5, 5, 5, 5, 1] max = myList[0] indexOfMax = 0 for i in range(1, len(myList)): if myList[i] > max: max = myList[i] indexOfMax = i print(indexOfMax)</p> <p>Ans:</p>
23	<p>What will be the output of the program? m = [[x, x + 1, x + 2] for x in range(0, 3)] m</p> <p>Ans:</p>
24	<p>What will be the output of following program: list("a#b#c#d".split('#'))</p> <p>Ans:</p>
25	<p>What will be the output of following program: values = [[3, 4, 5, 1], [33, 6, 1, 2]] for row in values: row.sort() for element in row: print(element, end = " ") print()</p>

	Ans:
26	<p>What will be the output of following program:</p> <pre>data = [[[1, 2], [3, 4]], [[5, 6], [7, 8]]] print(data[1][0][0])</pre> <p>Ans:</p>
27	<p>What will be the output of following program:</p> <pre>a="hello" b=list((x.upper(),len(x)) for x in a) print(b)</pre> <p>Ans:</p>
28	<p>What will be the output of following program:</p> <pre>a=[[]]*3 a[1].append(7) print(a)</pre> <p>Ans:</p>
29	<p>What will be the output of following program:</p> <pre>L1 = list() L1.append([1, [2, 3], 4]) L1.extend([7, 8, 9]) print(L1[0][1][1] + L1[2])</pre> <p>Ans:</p>
30	<p>What will be the output of following program:</p> <pre>List = [True, 50, 10] List.insert(2, 5) print(List, "Sum is: ", sum(List))</pre> <p>Ans:</p>
31	<p>What will be the output of following program:</p> <pre>T = [1, 2, 3, 4, 5, 6, 7, 8] print(T[T.index(5)], end = " ")</pre>

	<pre>print(T[T[T[6]-2]-4])</pre> <p>Ans:</p>
32	<p>What will be the output of following program:</p> <pre>aList = [4, 8, 12, 16] aList[1:4] = [20, 24, 28] print(aList)</pre> <p>Ans:</p>
33	<p>What will be the output of following program:</p> <pre>l = [None] * 10 print(len(l))</pre> <p>Ans:</p>
34	<p>What will be the output of following program:</p> <pre>sampleList = [10, 20, 30, 40, 50] sampleList.pop() print(sampleList) sampleList.pop(2) print(sampleList)</pre> <p>Ans:</p>
35	<p>What will be the output of following program:</p> <pre>resList = [x+y for x in ['Hello ', 'Good '] for y in ['Dear', 'Bye']] print(resList)</pre> <p>Ans:</p>
36	<p>What will be the output of following program:</p> <pre>aList1 = [123, 'xyz', 'zara', 'abc']; aList.insert (3,2009) print ("Final List:::", aList)</pre> <p>Ans:</p>

37	<p>What will be the output of following program:</p> <pre> A = [2, 4, 6, 8,10] L = len (A) S = 0 for I in range (1, L, 2): S+=A[I] print("Sum=",S) </pre> <p>Ans:</p>
38	<p>Given a Python list, find value 20 in the list, and if it is present, replace it with 200. Only update the first occurrence of a value</p> <pre>list1 = [5, 10, 15, 20, 25, 50, 20]</pre> <p>Expected output:</p> <pre>list1 = [5, 10, 15, 200, 25, 50, 20]</pre> <p>Ans:</p>
39	<p>Which function is used to reverse objects of list in place.</p> <p>Ans:</p>
40	<p>Write a Python program to sum all the items in a list.</p> <p>Ans:</p>

41	<p>Write a Python program to get the largest number from a list.</p> <p>Ans:</p>
42	<p>Write a Python program to count the number of strings where the string length is 2 or more and the first and last character are same from a given list of strings.</p> <p>Sample List : ['abc', 'xyz', 'cbc', '121']</p> <p>Expected Result : 2</p> <p>Ans:</p>
43	<p>Write a Python program to remove duplicates from a list.</p> <p>Ans:</p>

44	<p>Write a program to shift every element of a list to circularly right. E.g.- INPUT : 1 2 3 4 5 OUTPUT : 5 1 2 3 4</p> <p>Ans:</p>
45	<p>Take a list of 10 elements. Split it into middle and store the elements in two different lists. E.g.-</p> <p>INITIAL list :</p> <p>58 24 13 15 63 9 8 81 1 78</p> <p>After splitting :</p> <p>58 24 13 15 63</p> <p>9 8 81 1 78</p> <p>Ans:</p>
46	<p>Python Program to Find the Second Largest Number in a List</p> <p>Ans:</p>
47	<p>What will be the output of the following program:</p>

	<pre>l=[10,20,30,40,50,60] for i in range(len(l)): if(i%2==0): print(l[i],end='#') else: print(l[i])</pre> <p>Ans:</p>
48	<p>What will be the output of the following program:</p> <pre>l=[10,20,30,40,50,60] for i in range(len(l)): if(i%2==0): print(l[i],end='#') else: print(l[i],end='@')</pre> <p>Ans:</p>
49	<p>Program to Find Even elements in a List:</p> <p>Ans:</p>
50	<p>Program to Print list having numbers less than 10</p> <p>Ans:</p>

51	<p>What will be the output of following program: <code>l=[[i*j for j in range(1,11)] for i in range(7,9)]</code> <code>l</code></p> <p>Ans:</p>
52	<p>WAP to display the frequency of each item in a list.</p> <p>Ans:</p>
53	<p>What will be the output of the following program: <code>l=[6,12,18,24,30]</code> <code>for i in l:</code> <code>for j in range(1,i%4):</code> <code>print(j,'#',end='')</code> <code>print()</code></p> <p>Ans:</p>