

LIST MANIPULATION

ASSIGNMENTS

1. Write difference between `append()` and `extend()` methods of list.
2. How we can Select An Element From A List
3. How we can determine the size of the list.
4. Can we concatenates two lists,how
5. How we can sort the elements of the list.
6. How we can clone a list.
7. How you will intersect two list elements
8. Can we remove duplicate elements of a list,how.
9. How To Select An Element From A List
10. What is the output when we execute `list("hello")`?
11. Suppose `listExample` is `['h','e','l','l','o']`, what is `len(listExample)`?
12. Suppose `list1` is `[12, 323, 2322, 14, 25]`, What is `list1[:-1]` ?
13. What is the output when following code is executed ?

```
>>>names = ['Freya', 'Mohak', 'Mahesh', 'Dwivedi']  
>>>print(names[-1][-1])
```
14. What is the output when following code is executed ?

```
names1 = ['Freya', 'Mohak', 'Mahesh', 'Dwivedi']  
names2 = names1  
names3 = names1[:]  
names2[0] = 'Vishal'  
names3[1] = 'Jay'  
sum = 0  
for ls in (names1, names2, names3):  
    if ls[0] == 'Vishal':  
        sum += 2  
    if ls[1] == 'Jay':  
        sum += 5  
  
print sum
```
15. Suppose `list1` is `[9,1, 3, 2]`, What is `list1 * 2` ?

16. Suppose list1 = [0.5 * x for x in range(1, 5)], list1 is :
17. To add a new element to a list we use which command ?
18. To insert 9 to the second position in list1, write its command ?
19. To remove string "the" from list1, write its command ?
20. Suppose list1 is [1, 3, 5, 12, 5], what is list1.index(5) ?
21. Suppose list1 is [13, 14, 15, 20, 15, 25, 11, 13], what is list1.count(15) ?
22. What is the output when the following code is executed ?
- ```
>>>"Welcome to Computer Science".split()
```
23. What is the output when following code is executed ?
- ```
List = [1, 5, 5, 15, 5, 1]
max = List[0]
indexOfMax = 0
for i in range(1, len(List)):
    if List[i] > max:
        max = List[i]
        indexOfMax = i

>>>print(indexOfMax)
```
24. What is the output when following code is executed ?
- ```
list1 = [11, 13]
list2 = list1
list1[0] = 14
print(list2)
```
25. What will be the output?
- ```
names1 = ['Freya', 'Mohak', 'Mahesh', 'Dwivedi']
if 'freya' in names1:
    print(1)
else:
    print(2)
```
26. What will be the output?
- ```
numbers = [11, 12, 13, 14]
numbers.append([15,16,17,18])
print(len(numbers))
```

27. What will be the output?  
m = [[x, x + 1, x + 2] for x in range(1, 4)]  
print(m)
28. How many elements are in m?  
m = [[x, y] for x in range(1, 4) for y in range(1, 4)]
29. What will be the output?  
values = [[13, 41, 15, 11 ], [313, 16, 11, 12]]  
for r in values:  
    r.sort()  
    for element in r:  
        print(element, end = " ")  
    print()
30. What will be the output?  
points = [[1, 20.5], [2, 1.5], [0.5, 0.5]]  
points.sort()  
print(points)
31. What is the output of the following code?  
a=[101,123,561,[178]]  
b=list(a)  
a[3][0]=915  
a[1]=134  
print(b)
32. What is the output of the following code?  
a=[[[]]\*2  
a[1].append(9)  
print(a)
33. What is the output of the following code?  
a=[132,526,127]  
a.append([827])  
a.extend([425,627])  
print(a)