List Interview coding questions:

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1. Program to find the max, min number from the list user input.
listlang = []
numbers = int(input('enter the number of items in list '))
for num in range(numbers):
   item = int(input('Entered number '))
   listlang.append(item)
print('entered list =',listlang)
print("Max number = :", max(listlang), "\nMin number :", min(listlang))
Output
enter the number of items in list 4
Entered number 12
Entered number 34
Entered number 45
Entered number 67
entered list = [12, 34, 45, 67]
Max number = : 67
Min number: 12
2. Code to remove duplicate from list using List comprehension
Istnum = [12, 36, 56, 36, 36, 50, 56, 12]
unique_lst = []
[unique_lst.append(ele) for ele in lstnum if ele not in unique_lst]
print ("unique elements list : " ,unique_lst)
Output
unique elements list : [12, 36, 56, 50]
```

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3. Program to find the sum of list elements.
 Istnum = [12, 36, 56, 36, 36, 50, 56, 12]
sum = 0
for ele in range(0, len(lstnum)):
   sum = sum + lstnum[ele]
print ("sum of list items: ",sum)
Output
 sum of list
 items: 294
4. How to Multiply all the elements of list
 Istnum = [6, 2, 3, 1, 10, 4]
mutiply = 1;
for ele in Istnum:
  mutiply = mutiply* ele
print ("multiplication of list items: ", mutiply)
Output
 multiplication of list items: 1440
5. Program to generate a number list between two ranges.
 listnum = list(range(1, 7))
 print ("list between two range: ",listnum)
Output
 list between two range : [1, 2, 3, 4, 5, 6]
6. How to reverse the List using slice
 listnum = [45,67,12,14,56,87]
 reverselist =listnum[::-1]
print ("reverselist : " ,reverselist)
Output
```

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reverselist: [87, 56, 14, 12, 67, 45]
```

7. How to flatten a list of lists with a list comprehension

```
listnum = [[5,6,7,'C#'], ['C++',2,3]]
```



flatten_list = (ele) for sublist in (listnum) for ele in sublist]

print('flatten list =',flatten_list)

Output

flatten list = [5, 6, 7, 'C#', 'C++', 2, 3]

8. How to Intersect two list

intersect_res = [item for item in listnum if item in listnum1]

print('intersect of two list =',intersect_res)

Output

intersect of two list = ['C++', 6, 7, 5, 'C#']

9. Program to shuffle a list and print

```
from random import shuffle
listnum = ['Rust','go','C++',2,3,6,7,5,'C#']
```

shuffle(listnum)

print('list after shuffling =',listnum)

Output

list after shuffling = [6, 5, 'go', 'C#', 2, 3, 'Rust', 7, 'C++']

10. Program to convert a list into string

```
listlang = ['This','is','list','Code']
listtostring = ''.join(listlang)
```

```
print('list after shuffling =',listtostring)
Output
 list after shuffling = This is list Code
11. How to get the square of each list element between two range
listnum = list(range(3,9))
list_item_square = [ele ** 2 for ele in listnum]
 print(list_item_square)
Output
                                         Subtract
[9, 16, 25, 36, 49, 64]
12. Program to get the difference between two List using
comprehension
|stnum = [15, 78, 4]
lstnum1 = [80, 4, 89]
two_list_differnce = [ele for ele in lstnum if ele not in lstnum1]
 print(two_list_differnce)
Output
[15, 78]
13. How to count the number of list in list of list.
Istlng = ([15, 78, 4], C#',80,7], Go', 'Rust', 'C++'], 'Python', 12]
 print('count of list of list = ',len(lstlng))
                                   Find bane no of line
Output
count of list of list = 4
14. How to get the first element from each nested list of a list
lstlng = [[15, 78, 4],['C#',80,7],['Go','Rust','C++'],['Python',12]]
each list element = [item[0] for item in lstlng]
 print('first element of each nested list = ',each list element)
Output
first element of each nested list = [15, 'C#', 'Go', 'Python']
```

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15. How to count occurrence of repeated element in list
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```
from collections import Counter
```

IstIng = [15, 18, 14, 0#, 10, 10, 10, 10]

repeation_of_element = Counter(IstIng)

print(
repeation_of_element)

from collectors import

authority in the counter (IstIng)

authority in the co

Output

print ([[I, lst.count(I)] for I in set(Ist)])

16. How to Filter even values from a list using list comprehension

Istnum = [12, 18, 14, 18, 15, 6]

even_element_list = [ele for ele in lstnum if ele%2 == 0]

print('even item list =',even_element_list)

Output

even item list = [12, 18, 14, 18, 6]

17. How to Sort a list of integers in descending order

Istnum = [12, 18, 14,25,15,6]

Istnum.sort(reverse=True)

print('list sorting in descending order =',lstnum)

Output

list sorting in descending order = [25, 18, 15, 14, 12, 6] 18. How to Sort a list of integers in ascending order

sort() method used to sort the list in ascending order.

Istnum = [12, 18, 14, 25, 15, 6]

Istnum.sort()

```
print('list sorting in ascending order =',lstnum)
```

Output

list sorting in ascending order = [6, 12, 14, 15, 18, 25]

Sinder con be taken if 19. How to remove elements in a list before a specific index Istnum = [12, 18, 14,25/,15,6] wy stuy new_list = Istnum[4:] print('removinfg element before specific Index =' ,new_list) **Output** removing element before specific Index = [15, 6] 20. How to remove empty strings from the list of strings liststr = ["Python", "", "list", "first", "", "example"] Istafter_remove_empty \(\neq \) list filter (None, liststr)) print(lstafter_remove_empty) Output ['Python', 'list', 'first', 'example'] 21. How to sort two lists simultaneously Istnum = [5,2, 1, 7,26]lstnum1 = [45,35, 78, 80, 100]Istnum, lstnum1 = zip(*sorted(zip(lstnum, lstnum1)))

```
print(lstnum, lstnum1)
Output
 (1, 2, 5, 7, 26) (78, 35, 45, 80, 100)
23. How to concatenate two list element wise/index-wise.
lststr = ["th", "i", "Pyth", "exa"]
lststr1 = ["is", "s", "on", "mple"]
concate_list = [i + j for i, j in zip(lststr, lststr1)]
 print('concatenated list = ',concate list)
Output
 concatenated list = ['this', 'is', 'Python', 'example']
24. How to concatenate every element across lists using list
comprehension
Iststr = ["this", "Python"]
lststr1 = ["is", "example", "of"]
 templst = [(x, y)] for x in lststr for y in lststr1
 concate_list = [x + ' ' + y \text{ for } (x, y) \text{ in templst}]
 print('concatenated
 list = ',concate list)
Output
 concatenated list = ['this is', 'this example', 'this of', 'Python is', 'Python
 example', 'Python of']
25. How to remove negative values from a list with the filter function
 Istnum = [-5, 27, 1000, -4, 0, -80, 56, -67]
//Removing negative values
 res_lst = [item for item in lstnum if item >= 0]
 print('list after removing negative values =',res_lst)
```

Output

list after removing negative values = [27, 1000, 0, 56]