Solve problems like sum of elements, duplicate, list is empty?

1. **Sum of elements in a list:**

To find the sum of elements in a list, you can iterate through the list and add each element to a running total. Here's a Python function to achieve that:

python

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def sum\_of\_elements(lst):

total = 0

for num in lst:

total += num

return total

For example:

python

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my\_list = [1, 2, 3, 4, 5]

print("Sum of elements:", sum\_of\_elements(my\_list)) # Output: 15

1. **Finding duplicates in a list:**

To find duplicates in a list, you can iterate through it and keep track of elements you've encountered before using a set. Here's a Python function to achieve that:

python

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def find\_duplicates(lst):

seen = set()

duplicates = set()

for item in lst:

if item in seen:

duplicates.add(item)

else:

seen.add(item)

return list(duplicates)

For example:

python

Copy code

my\_list = [1, 2, 3, 4, 2, 5, 3]

print("Duplicates:", find\_duplicates(my\_list)) # Output: [2, 3]

1. **Check if a list is empty:**

To check if a list is empty, you can simply use the len() function to get the length of the list and check if it's equal to 0. Here's how you can do it:

python

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def is\_list\_empty(lst):

return len(lst) == 0

For example:

python

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empty\_list = []

non\_empty\_list = [1, 2, 3]

print("Is empty:", is\_list\_empty(empty\_list)) # Output: True

print("Is empty:", is\_list\_empty(non\_empty\_list)) # Output: False

Feel free to use these functions in your code! Let me know if you need further explanation or assistance.

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