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In [1]: ##1. Sum all the items in a list
         def sum_list(lst):
              total = 0
for item in lst:
                   total += item
               return total
         print("Sum:", sum_list([1, 2, 3, 4, 5]))
        Sum: 15
In [2]: ##2. Get the largest and smallest number from a list without using built-in functions
         def min_max(lst):
              smallest = lst[0]
largest = lst[0]
for num in lst[1:]:
                  if num < smallest:</pre>
                       smallest = num
                   if num > largest:
                      largest = num
              return smallest, largest
          nums = [3, 6, 1, 8, 2, 9]
         minimum, maximum = min_max(nums)
print("Smallest:", minimum)
         print("Largest:", maximum)
        Smallest: 1
        Largest: 9
In [3]: ##3. Find and display duplicate values from a list
          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)
         print("Duplicates:", find_duplicates([1, 1, 2, 3, 4, 4, 5, 1]))
        Duplicates: [1, 4]
In [4]: ##4. Split a given list into two parts at a given length
def split_list(lst, split_index):
    first_part = []
               second_part = []
              for i in range(len(lst)):
    if i < split_index:</pre>
                       first_part.append(lst[i])
                   else:
                       second_part.append(lst[i])
              return first_part, second_part
         original = [1, 1, 2, 3, 4, 4, 5, 1]
         first_len = 3
part1, part2 = split_list(original, first_len)
print("Splitted list:", (part1, part2))
        Splitted list: ([1, 1, 2], [3, 4, 4, 5, 1])
In [5]: ##5. Traverse a list in reverse and print elements with original index
         def reverse_traverse(lst):
             for i in range(len(lst)-1, -1, -1):
                   print(f"Index {i}: {lst[i]}")
         colors = ['red', 'green', 'white', 'black']
print("Reversed traversal:")
         reverse_traverse(colors)
        Reversed traversal:
        Index 3: black
Index 2: white
        Index 1: green
        Index 0: red
In [ ]:
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