```
In [9]: # Define a list of numbers
         numbers = [1, 2, 3, 4, 5]
         # Initialize total to 0
         total = 0
         # Iterate through each number in the list
         for num in numbers:
             total += num # Add the number to the total
         # Print the sum of all elements
         print(f"Sum: {total}")
         Sum: 15
In [10]: # Define a list of numbers
         numbers = [10, 20, 4, 45, 99]
         # Initialize max_value and min_value to the first element of the list
         max_value = numbers[0]
         min_value = numbers[0]
         # Iterate through each number in the list
         for num in numbers:
             if num > max_value:
                 max_value = num # Update max_value if current number is larger
             if num < min_value:</pre>
                 min_value = num # Update min_value if current number is smaller
         # Print the maximum and minimum values
         print(f"Max: {max_value}, Min: {min_value}")
         Max: 99, Min: 4
In [11]: # Define a list of items
         items = ['a', 'b', 'c', 'd']
         # Initialize an empty list to store reversed items
         reversed_items = []
         # Iterate through each item in the original list
         for item in items:
             reversed_items.insert(0, item) # Insert each item at the beginning of the new list
         # Print the reversed list
         print(f"Reversed List: {reversed_items}")
         Reversed List: ['d', 'c', 'b', 'a']
         # Define a list with duplicate elements
In [12]:
         original_list = [1, 2, 2, 3, 4, 4, 5]
         # Initialize an empty list to store unique items
         unique_list = []
         # Iterate through each item in the original list
         for item in original_list:
             if item not in unique_list:
                 unique_list.append(item) # Append item if it is not already in the unique list
         # Print the list with duplicates removed
         print(f"Unique List: {unique_list}")
         Unique List: [1, 2, 3, 4, 5]
```

```
# Define a list of items
In [13]:
         items = ['apple', 'banana', 'apple', 'orange', 'banana', 'apple']
         # Initialize an empty dictionary to store counts
         count_dict = {}
         # Iterate through each item in the list
         for item in items:
             if item in count_dict:
                 count_dict[item] += 1 # Increment count if item is already in the dictionary
             else:
                 count_dict[item] = 1 # Add item to dictionary with count 1
         # Print the occurrences of each item
         print("Occurrences:")
         for item, count in count_dict.items():
             print(f"{item}: {count}")
         Occurrences:
         apple: 3
         banana: 2
         orange: 1
In [14]: # Define a list of lists
         list_of_lists = [[1, 2, 3], [4, 5], [6, 7, 8]]
         # Initialize an empty list to store flattened items
         flattened_list = []
         # Iterate through each sublist in the list of lists
         for sublist in list_of_lists:
             for item in sublist:
                 flattened_list.append(item) # Append each item from the sublist to the flattene
         # Print the flattened list
         print(f"Flattened List: {flattened_list}")
         Flattened List: [1, 2, 3, 4, 5, 6, 7, 8]
In [15]: # Define two lists
         list1 = [1, 2, 3, 4, 5]
         list2 = [4, 5, 6, 7, 8]
         # Initialize an empty list to store common elements
         common_elements = []
         # Iterate through each item in the first list
         for item in list1:
             if item in list2:
                 common_elements.append(item) # Append item if it is also in the second list
         # Print the common elements
         print(f"Common Elements: {common_elements}")
         Common Elements: [4, 5]
```