**Q1. Create an empty list.**

We can create an empty list in Python using empty square brackets [] or by using the list() constructor.

1: Using Square Brackets

empty\_list = []

print(empty\_list) # Output: []

2: Using the list() Constructor

empty\_list = list()

print(empty\_list) # Output: []

**Q2. Create a list and add an element to the end of this list.**

# Create a list

my\_list = [1, 2, 3]

# Add an element to the end of the list

my\_list.append(4)

# Print the updated list

print(my\_list) # Output: [1, 2, 3, 4]

**Q3. For the above created list print the last element.**

# Create a list

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

# Print the last element

last\_element = my\_list[-1]

print(last\_element) # Output: 4

**Q4. Reverse the above created list.**

We can reverse a list in Python using the reverse() method or by using slicing. Here are both methods:

### **Method 1: Using the reverse() Method**

# Create a list

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

# Reverse the list in place

my\_list.reverse()

# Print the reversed list

print(my\_list) # Output: [4, 3, 2, 1]

**Method 2: Using Slicing**

# Create a list

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

# Reverse the list using slicing

reversed\_list = my\_list[::-1]

# Print the reversed list

print(reversed\_list) # Output: [4, 3, 2, 1]