**1. Create a list of 5 integers and display the list items. Access individual elements through index.**

numbers = [10, 20, 30, 40, 50]

print("Full list:", numbers)

print("First element:", numbers[0])

print("Second element:", numbers[1])

print("Third element:", numbers[2])

print("Fourth element:", numbers[3])

print("Fifth element:", numbers[4])

**2. Write a program to append a new item to the end of the list.**

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

my\_list.append(6)

print("Updated list:", my\_list)

**3. Write a program to reverse the order of the items in the list.**

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

my\_list.reverse()

print("Reversed list:", my\_list)

**4. Write a program to print the number of occurrences of a specified element in a list.**

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

count = my\_list.count(2)

print("Number of occurrences of 2:", count)

**5. Write a program to append the items of list1 to list2 in the front.**

list1 = [4, 5, 6]

list2 = [1, 2, 3]

list2 = list1 + list2

print("New list after appending list1 in front of list2:", list2)

**6. Write a program to insert a new item before the second element in an existing list.**

my\_list = [10, 20, 30, 40]

my\_list.insert(1, 15) # index 1 is before the second element

print("List after insertion:", my\_list)

**7. Write a program to remove the item from a specified index in a list.**

my\_list = [10, 20, 30, 40, 50]

del my\_list[2] # Removes the third element (index 2)

print("List after deleting index 2:", my\_list)

**8. Write a program to remove the first occurrence of a specified element from a list.**

my\_list = [5, 10, 15, 10, 20]

my\_list.remove(10) # Removes first occurrence of 10

print("List after removing first occurrence of 10:", my\_list