List Data Type:

We can store multiple values in list. We can store any data in list.

**Examples:**

Numbers List:

numbers = [1, 2, 3, 4, 5]

String List:

fruits = ["apple", "banana", "orange", "kiwi", "grape"]

Boolean List:

flags = [True, False, True, True, False]

Mixed List:

mixed = [1, "apple", True, 3.14, ["a", "b", "c"]]

Character List:

characters = ['a', 'b', 'c', 'd', 'e']

'''

Program 1: Sum of Numbers

This program calculates the sum of all numbers in a list.

'''

numbers = [1, 2, 3, 4, 5]

total = sum(numbers)

print("Sum of numbers:", total)

Method To Calculate Sum Of List Elements:

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

total = sum(numbers)

print("Sum of numbers:", total)

total1=1+2+3+4+5;

print("Sum of numbers:", total1)

total2=numbers[0]+numbers[1]+numbers[2]+numbers[3]+numbers[4]

print("Sum of numbers:", total2)

'''

Program 2: Find Maximum Value

This program finds the maximum value in a list.

'''

numbers = [7, 2, 9, 4, 5]

maximum = max(numbers)

print("Maximum value:", maximum)

'''

Program 3: List Reversal

This program reverses the elements of a list.

'''

fruits = ["apple", "banana", "orange", "kiwi", "grape"]

reversed\_fruits = list(reversed(fruits))

print("Reversed list:", reversed\_fruits)

'''

Program 4: List Concatenation

This program concatenates two lists into a single list.

'''

list1 = [1, 2, 3]

list2 = [4, 5, 6]

concatenated\_list = list1 + list2

print("Concatenated list:", concatenated\_list)

'''

Program 5: Vowel List

'''

list1 = ['a','e','i','o','u']

print("Vowels:", list1)