Exercise 49:

**1. Using input() Function:**

The input() function reads a string entered by the user.

name = input("Enter your name: ")

print("Hello,", name)

**2. Converting Input to a Specific Type:**

By default, input() returns a string. You can convert the input to other types such as int, float, etc.

**For integers:**

age = int(input("Enter your age: "))

print("You are", age, "years old.")

**For floating-point numbers:**

height = float(input("Enter your height in meters: "))

print("Your height is", height, "meters.")

**3. Multiple Inputs at Once (Using split()):**

You can enter multiple values at once, split them, and assign to variables.

x, y = input("Enter two numbers separated by space: ").split()

print("First number:", x)

print("Second number:", y)

**Converting multiple inputs to integers or floats:**

x, y = map(int, input("Enter two numbers separated by space: ").split())

print("Sum:", x + y)

**4. Using eval() for Evaluating Expressions:**

eval() can be used to evaluate user input as an expression (use carefully as it can execute arbitrary code).

result = eval(input("Enter a mathematical expression: "))

print("The result is:", result)

**5. Prompting for Lists (Using split()):**

You can prompt the user for a list of values and split the input into a list.

numbers = input("Enter numbers separated by space: ").split()

print("List of numbers:", numbers)