**Input, Output, and Import in Python**

**Input in Python**

Python uses the input() function to capture user input from the keyboard. The function always returns input as a **string**, regardless of what the user types.

name = input("")

print("Hello", name)

name = input("Enter your name: ")

print("Hello", name)

For numerical input, one must convert the string to the appropriate data type

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

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

**Multiple Inputs**

**You can take multiple inputs in a single line using split()**

x, y = input("Enter two values: ").split()

a, b, c = input("Enter three numbers: ").split()

# Convert to integers

num1, num2 = map(int, input("Enter two numbers: ").split())

**Output in Python**

print(\*objects, sep=' ', end='\n', file=sys.stdout, flush=False)

# Simple output

print("Hello World!")

# Multiple variables

name = "Alice"

age = 25

print("Name:", name, "Age:", age)

# Using separator

print("apple", "banana", "cherry", sep=", ")

# Using end parameter

print("Hello", end=" ")

print("World") # Output: Hello World

# F-strings (recommended)

name = "Bob"

age = 30

print(f"My name is {name} and I am {age} years old")

# Format method

print("Hello {} and welcome!".format(name))

# Old style formatting

print("Name: %s, Age: %d" % (name, age))

x, y = map(int, input("Enter two values: ").split())

z = x + y

print(z)

**Import in Python**

# Import entire module

import math

result = math.sqrt(16)

# Import specific functions

from math import sqrt, pi

result = sqrt(16)

# Import with alias

import numpy as np

array = np.array([1, 2, 3])

# Import all (not recommended)

from math import \*

**Complete Example**

import math

# Input

name = input("Enter your name: ")

radius = float(input("Enter circle radius: "))

# Processing

area = math.pi \* radius \*\* 2

# Output

print(f"Hello {name}!")

print(f"Circle area: {area:.2f}")