Comments – They are a part of code but they won’t execute in execution time.

Two types:

1. Single-line comment → # any program

2. Multi-line comment → ''' ...or..... '''

Keywords – They are reserved words used for particular tasks. We cannot use keywords as identifiers (variables, function names).

Example: False, True, if, else, import, class, break, try, except, while, for, def

Identifier – Used to declare variables.

Examples: a = 3, total = 5, b = 10

Question – Write 20 topics and out of them find multiples of 5 and print the list by 5.

Valid identifier declaration:

a = 5

num = 4

Num1 = 39

num\_22 = 12

emp\_name = "Deepak"

quote = "String is enclosed in single or double quotes"

emp\_no = 987654321

Invalid variable declaration:

int = 35

# cannot use keyword as variable name

Datatypes

Two types:

1. Primitive components → int, float, complex, bool

2. String → a type of collection; also considered a datatype

3. Collection datatypes → list, tuple, dictionary

Examples

int: 1, 20, 40

float: 2.5, 0.98

complex: 5+3j

bool: True, False

List Example

a = [10, 20, 30, 40]

a[0] = 10

a[1] = 20

a[2] = 30

Matrix-like representation:

a = [ [1, 2], [3, 4] ]

Input / Output functions

input() → takes input

print() → prints output

Examples

print("Hello all") # Output → Hello all

a = input() # Input from user

type(a) # By default input is string

a = int(input("Enter a number: "))

# Input converted to integer

type(a) # Output: int

b = int(input())

type(b) # Output: int

Exercise

Write a program to read employee id, employee name, employee phone number, and print the details.