Chapter-8

Worksheet: Introduction to Python

Part 1: Fill in the Blanks

#,   Interpreted,   Coding,   Interpreter,   input()

1. Python is an _____, high-level, and object-oriented programming language.

2. The process of designing, writing, and implementing instructions for a computer to follow is called _____.

3. Python uses an _____ to convert its instructions into machine language.

4. The _____ function is used to take user input in Python.

5. In Python, the _____ symbol is used to start writing a comment.

Part 2: Match the Following

Column A (Data Type) Column B (Description)

1. Integer	a. A collection of key-value pairs.
2. String	b. A sequence of characters enclosed in quotes.
3. List	c. A whole number without a decimal point.
4. Dictionary	d. An ordered collection of items that can be changed.
5. Tuple	e. An ordered collection of items that cannot be changed.

Multiple Choice Questions

1. Which of the following is NOT a Python data type?

   a) Integer

   b) String

   c) List

   d) Loop

2. What is the output of the following code?

```python
Copy
x = 10
y = 3
print(x // y)
```

a) 3.33

b) 3

c) 3.0

d) 4

3. Which operator is used to check if two variables refer to the same object in Python?

a) ==

b) is

c) =

d) in

4. What is the purpose of the input() function in Python?

a) To display output on the screen.

b) To take user input from the keyboard.

c) To perform arithmetic operations.

d) To define a variable.

5. Which of the following is true about Python comments?

a) Comments are executed by the Python interpreter.

b) Comments start with the # symbol.

c) Comments can only be written on a single line.

d) Comments are used to define variables.

True or False

1. Python is a compiled language. (True / False)

2. The print() function is used to display output in Python. (True / False)

3. Python uses curly braces {} to define code blocks. (True / False)

4. The is not operator checks if two variables do not refer to the same object. (True / False)

5. Python supports multi-line comments using triple quotes. (True / False)