



## DAY-2 ASSIGNMENT

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## Assignment Submission Rules

**1. Deadline Compliance:** All assignments must be submitted before the start of the next class. Late submissions will not be accepted unless prior arrangements have been made with the instructor.

**2. Format and Presentation:** Assignments should be submitted in a proper document format (such as .docx, .pdf). Ensure that your document is clearly formatted, legible, and includes your name and class details.

**3. Integrity and Originality:** Your work must be your own. Plagiarism or copying from classmates or other sources is strictly prohibited and will result in serious academic consequences.

These rules aim to ensure a fair and organised learning environment for all participants.

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## Understanding Variables, Comments, and Data Types in Python

### Multiple Choice Questions (Choose the correct answer)

1. What symbol is used to start a single-line comment in Python?

- a) `//`
- b) `/\*`
- c) `` **correct**
- d) `<!--`

2. Which of these is a valid variable assignment in Python?

- a) `2nd\_number = 10`
- b) `number-2 = 10`
- c) `number\_two = 10` **Correct**
- d) `number.2 = 10`

3. What data type in Python is used to represent whole numbers?

- a) String
- b) Integer **Correct**

- c) Character
- d) Float

4. In Python, what does the term "dynamic typing" mean?

- a) Variables can change types during execution. **correct**
- b) The type of a variable is checked at compile time.
- c) Variables must be typed dynamically on the keyboard.
- d) The type of a variable cannot be inferred by the interpreter.

5. Which of these is not a Python data type?

- a) `list`
- b) `str`
- c) `int`
- d) `perform` **Is not a python data type**

### Fill in the Blanks

1. In Python, a variable's value can be changed after it has been created, making variables dynamic.
2. To write a multi-line comment in Python, a common practice is to use `""" """` at the beginning of each line.

### True/False

1. A variable name in Python can begin with a number. (True/False) **False**
2. Triple-quoted strings (`` or ``) are often used as single-line comments in Python. (True/False) **False**

### Match the Columns

Match the terms in **Column A** with their descriptions in **Column B**.

A	B
1. ``	a. Symbol for single-line comment
2. `int` <b>match with c</b>	b. Data type for numbers with a decimal point
3. `float` <b>match with b</b>	c. Data type for whole numbers
4. `"apple"`	d. Example of a string
5. Variable	e. A symbolic name referring to a value stored in memory

### Theory + Practical Code Based Questions

#### Question 1: Variable Assignment and Usage

- **Theory:** Explain the process of variable assignment in Python. What rules should be followed while naming a variable?
- **Practical:** Write a Python code to assign the value `10` to a variable named `my\_number` and then print the value of `my\_number`.

### Question 2: Understanding Data Types

- **Theory:** Describe the difference between integers and floating-point numbers in Python.
- **Practical:** Create two variables, `whole\_number` assigned with an integer and `decimal\_number` assigned with a floating-point number. Print their values.

### Question 3: Strings in Python

- **Theory:** What is a string in Python, and how is it different from a character?
- **Practical:** Define a string variable named `greeting` with the value `"Hello, world!"`. Print the variable value.

### Question 4: Single-line and Multi-line Comments

- **Theory:** Explain the purpose of comments in Python and differentiate between single-line and multi-line comments.
- **Practical:** Write a Python code snippet that includes both a single-line comment and a multi-line comment.

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Code answer:

```
1. my_number = 10
   print(my_number)
```

```
2. whole_number = 10
   decimal_number = 10.5
   print(whole_number, decimal_number)
```

```
3. greeting = "Hello, World!"
   print(greeting)
```

```
#"this is an example of single line comment"
'this is also another example of single line comment'
"""
this is an example of multi line comment
here we can add multiple lines of information's
"""
```