

## Homework Assignment: Python Terminology Match

### **\*\*Instructions:\*\***

In this assignment, you will test your knowledge of important Python programming concepts by matching each term to its correct definition. Read each definition carefully and match it with the appropriate term from the list provided. Write the letter corresponding to the correct term next to each definition.

### **\*\*List of Terms:\*\***

- A. Syntax
- B. Comments
- C. Functions
- D. Interpreter
- E. Conditional Statements
- F. Loops
- G. Data Types
- H. Operators (Arithmetic/Comparison)
- I. Expressions
- J. Methods

### **\*\*Definitions:\*\***

1. \_\_\_\_ The set of rules that govern the combinations of symbols and keywords that make up a valid Python program.
2. \_\_\_\_ Explanatory notes or annotations within your Python code that are ignored by the interpreter but provide information to human readers.
3. \_\_\_\_ Blocks of code that are executed repeatedly until a certain condition is met, helping automate repetitive tasks.
4. \_\_\_\_ A software component that reads and executes Python code line by line.
5. \_\_\_\_ Statements that allow you to create branching logic in your code, executing different code blocks based on conditions.
6. \_\_\_\_ The different categories of values that variables can hold, such as integers, strings, and lists.
7. \_\_\_\_ Mathematical or logical symbols used to perform operations on variables and values.
8. \_\_\_\_ Mathematical and logical operations like addition, subtraction, and comparison used to manipulate and evaluate data.
9. \_\_\_\_ Combinations of literals, variables, operators, and function calls that result in a single value.
10. \_\_\_\_ Named blocks of code that can be called with specific inputs to perform a particular task.
11. \_\_\_\_ Built-in or user-defined functions that are associated with specific objects, allowing you to perform actions on them.
12. \_\_\_\_ A program construct that allows you to make decisions and execute different code based on conditions.

13. \_\_\_\_ A set of built-in or user-defined operations that can be performed on objects of a particular data type.
14. \_\_\_\_ Instructions or statements in Python that define the behavior of your program and are executed by the interpreter.
15. \_\_\_\_ Special keywords or functions used to manipulate and process strings and lists.

**\*\*Matching:\*\***

For each definition (1-15), write the letter corresponding to the term from the list (A-J) that best matches the definition.

**\*\*Submission Instructions:\*\***

1. Write the letter corresponding to the correct term next to each definition.
2. Ensure your answers are clear and legible.
3. Save your assignment with your name and the assignment title (e.g., "Jane\_Doe\_Python\_Terminology\_Match.doc").
4. Submit your assignment to your instructor by the specified deadline.

**\*\*Grading Criteria:\*\***

Your assignment will be assessed based on the accuracy of your matches and your understanding of the Python programming terminology.