

Python Lists, Variables, Modules — Quiz (Medium)

Auto-generated quiz (medium) for Python Lists, Variables, Modules

Subject: Python Lists, Variables, Modules
Assessment Type: Quiz
Difficulty Level: Medium
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Question 1 [1 marks] (medium)

According to the provided text, what characteristic defines an "immutable" object in Python?

Question 2 [2 marks] (medium)

Which list method adds a single item to the end of a list?

- A. list.extend(x)
- B. list.add(x)
- C. list.insert(x)
- D. list.append(x)

Question 3 [2 marks] (medium)

According to the Python tutorial, which of the following is an immutable object type?

- A. List

- B.** Dictionary
- C.** Tuple
- D.** Set

Question 4 [2 marks] (*medium*)

What is the primary purpose of a Python module?

- A.** To define new programming languages
- B.** To store definitions for use in other scripts or the interpreter
- C.** To compile Python code into executable binaries
- D.** To manage network connections

Question 5 [2 marks] (*medium*)

What does Python's standard library primarily consist of?

- A. Third-party packages requiring external installation
- B. Modules built into the interpreter or provided with Python
- C. User-defined functions from local scripts
- D. Machine-level code for hardware interaction

Question 6 [2 marks] (*medium*)

Write a Python function `append_to_list` that takes a list of integers and an integer. The function should append the integer to the list and return the modified list. Input: `my_list` (list of int), `item` (int) Output: `my_list` (list of int)

Question 7 [1 marks] (*medium*)

Write a Python function `double_value` that takes an integer `x` as input. The function should double the value of `x` and return the new value. Input: `x` (int) Output: `result` (int)

Question 8 [2 marks] (*medium*)

Write a Python function `get_pi_value` that imports the `math` module and returns the value of pi from it. Input: None Output: `pi_value` (float)