

Python Institute PCPP1

Certified Professional in Python Programming 1

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Question: 1

You are developing a class where instances need to maintain a unique ID. Which approach would ensure this without duplicating IDs?

Response:

- A. Define `__init__` and assign IDs randomly.
- B. Use a class attribute to track the last assigned ID.
- C. Generate IDs using `hash()` on the object.
- D. Use a dictionary with IDs as keys.

Answer: B

Question: 2

A junior developer asks for guidance on documenting code using type hints. Which standard should you recommend?

Response:

- A. PEP 8
- B. PEP 20
- C. PEP 484
- D. PEP 257

Answer: C

Question: 3

Your team is documenting an API using Python's built-in tools. Which standard should be followed for writing docstrings?

Response:

- A. Use PEP 8 naming conventions.
- B. Follow PEP 20 for code clarity.
- C. Apply PEP 257 for writing docstrings.
- D. Use PEP 484 for compatibility checks.

Answer: C

Question: 4

When writing function names according to PEP 8, which style should be used?

Response:

- A. CamelCase
- B. snake_case
- C. UPPERCASE
- D. kebab-case

Answer: B

Question: 5

Your tkinter application needs to display a list of items for users to select. Which widget should you use?

Response:

- A. Listbox
- B. Menu
- C. OptionMenu
- D. Combobox

Answer: A

Question: 6

What is the best description of inheritance in Python?

Response:

- A. A mechanism to store data in a class.
- B. A technique to create new classes by extending existing ones.
- C. A feature to prevent data duplication.
- D. A system for managing data attributes.

Answer: B

Question: 7

Your project includes extensive internal APIs. Which standard ensures proper documentation practices for public methods?

Response:

- A. PEP 8
- B. PEP 257
- C. PEP 20
- D. PEP 484

Answer: B

Question: 8

You need to fetch all records from a database using sqlite3. Which method should you use after executing the query?

Response:

- A. fetchone()
- B. fetchall()
- C. fetchmany()
- D. getrows()

Answer: B

Question: 9

Which method is used to open a file for both reading and writing in text mode?

Response:

- A. open(file, "r+")
- B. open(file, "w")
- C. open(file, "a")
- D. open(file, "r")

Answer: A

Question: 10

A user reported that button clicks in your application are not triggering any action. What is the most likely cause?

Response:

- A. Incorrect command callback function.
- B. The button text is not set.

- C. The button is not visible.
- D. The application loop is inactive.

Answer: A

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