

Python Institute PCED

Certified Entry-Level Data Analyst with Python

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Question: 1

Your Python program frequently fails when connecting to an external API. What can you do to improve reliability?

Response:

- A. Use exception handling to retry the connection.
- B. Increase the API response timeout.
- C. Remove error handling to identify the root cause.
- D. Execute API calls in a loop without exceptions.

Answer: A

Question: 2

Which are differences between DataFrame and Series in Pandas?

(Select three.)

Response:

- A. A DataFrame has multiple columns; a Series has one.
- B. A Series is one-dimensional; a DataFrame is two-dimensional.
- C. A Series can store only integers.
- D. A DataFrame uses row and column indices; a Series uses a single index.
- E. A Series cannot store strings.

Answer: A,B,D

Question: 3

What does a positive Pearson's correlation coefficient (r) indicate?

Response:

- A. No relationship between variables
- B. A weak negative correlation
- C. A strong positive correlation
- D. An inverse relationship

Answer: C

Question: 4

Which visualization type is best for displaying data distributions?

Response:

- A. Scatterplot
- B. Histogram
- C. Lineplot
- D. Bar chart

Answer: B

Question: 5

Which data storage solution is ideal for managing large volumes of unstructured data?

Response:

- A. Data warehouse
- B. Data lake
- C. Relational database
- D. Spreadsheet

Answer: B

Question: 6

Which of the following are NumPy aggregation functions?

(Select three.)

Response:

- A. np.sum()
- B. np.mean()
- C. np.max()
- D. np.merge()
- E. np.split()

Answer: A,B,C

Question: 7

You have a dataset where the standard deviation is very high. What does this indicate about the data?
Response:

- A. The data is normally distributed.
- B. The data points are widely spread out.
- C. There are no outliers in the dataset.
- D. The dataset has many duplicate values.

Answer: B

Question: 8

You need to calculate the sum of all even numbers in a list numbers. Which code snippet accomplishes this?
Response:

- A. Edit
total = sum([num for num in numbers if num % 2 == 0])
- B. Edit
total = sum(num for num in numbers if num % 2 != 0)
- C. Edit
total = sum([num for num in numbers if num > 2])
- D. Edit
total = sum(numbers)

Answer: A

Question: 9

A client requests a summary of product sales grouped by category. Which Pandas function should you use?
Response:

- A. aggregate()
- B. groupby()
- C. sort_values()
- D. pivot_table()

Answer: B

Question: 10

What is the primary purpose of data normalization in data analysis?

Response:

- A. To identify outliers in the dataset.
- B. To scale variables for easier comparison.
- C. To remove missing values from the dataset.
- D. To ensure consistent file formatting.

Answer: B

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