

PYTHON DATA ANALYSIS: EXERCISE

Quiz: Introduction to Python for Data Analysis

Week 1 Topics: Numpy and Pandas

Question 1: What is NumPy and what is its primary purpose in Python data analysis?

- a) NumPy is a library for data visualization
- ☒ b) NumPy is a library for numerical computing with Python
- c) NumPy is a library for machine learning algorithms
- d) NumPy is a library for web development

Question 2: Which of the following statements best describes the role of Pandas in Python data analysis?

- a) Pandas is primarily used for web scraping
- ☒ b) Pandas is a library for data manipulation and analysis
- c) Pandas is exclusively used for statistical modeling
- d) Pandas is a library for natural language processing

Question 3: In Python, what data structure does NumPy introduce to efficiently work with arrays?

- a) List
- b) Dictionary
- ☒ c) Array
- d) Set

Question 4: Which of the following is NOT a data structure commonly used in Pandas?

- a) Series
- b) DataFrame
- c) Array
- ☒ d) Panel



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Question 5: How can you create a Pandas DataFrame from a dictionary?

- a) Using the `pd.array()` function
- b) Using the `pd.DataFrame.from_list()` function
- c) Using the `pd.DataFrame()` constructor
- d) Using the `pd.Series()` constructor

Question 6: What is the primary function of the `head()` method in Pandas?

- a) It retrieves the last rows of a DataFrame
- b) It displays the first few rows of a DataFrame
- c) It sorts the DataFrame in ascending order
- d) It performs a statistical analysis on the DataFrame

Question 7: Which NumPy function is used to reshape arrays?

- a) `reshape()`
- b) `resize()`
- c) `rearrange()`
- d) `reform()`

Question 8: How can you access a specific column in a Pandas DataFrame?

- a) Using indexing like `dataframe[column_name]`
- b) Using the `get_column()` method
- c) Using the `retrieve_column()` function
- d) Using the `select_column()` method

Question 9: What function in Pandas is used to drop missing values from a DataFrame?

- a) `remove_missing()`
- b) `dropna()`
- c) `clean_data()`
- d) `discard_null()`



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Question 10: Which of the following is true regarding the usage of NumPy and Pandas together in Python data analysis?

- a) NumPy and Pandas cannot be used together
- ☒ b) NumPy is used for numerical computations while Pandas is used for data manipulation and analysis
- c) Pandas is a replacement for NumPy
- d) NumPy is used for data manipulation while Pandas is used for numerical computations

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Sincerely,



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