

## PYTHON PROGRAMMING

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1. Recall and describe the basic concepts of programming algorithms and flowcharts to solve problems:
  - Define algorithms and flowcharts
  - Identify the steps involved in solving a problem using algorithms and flowcharts
  - Create and interpret flowcharts for problem-solving
2. Apply Python operators, expressions, and statements to perform basic operations and calculations:
  - Identify and use arithmetic, comparison, and logical operators in Python
  - Construct and evaluate expressions using operators
  - Write and execute Python statements to perform tasks
3. Utilize sequence data types (set, tuple, list, dictionary, and arrays) in Python for data manipulation and organization:
  - Differentiate between set, tuple, list, dictionary, and arrays in Python
  - Create, access, update, and manipulate data in different sequence data types
  - Apply appropriate sequence data type for specific data storage needs
4. Implement functions and parameterized functions to modularize and organize code in Python:
  - Define functions with and without parameters in Python
  - Call and use functions to perform specific tasks
  - Compose and reuse functions for code modularity and organization
5. Perform file processing operations in Python to read and write data from/to files:
  - Open, read, write, and close files in Python
  - Handle file processing errors and exceptions
  - Implement file processing operations for data storage and retrieval
6. Manage scope and utilize modules in Python for code structuring and reusability:
  - Explain the concept of scope in Python programming
  - Create and use modules to structure and organize code
  - Import and utilize modules for code reusability
7. Apply basic libraries in Python for advanced functionality and data manipulation:
  - Identify and import basic libraries in Python (e.g., NumPy, Pandas, Matplotlib)
  - Utilize basic libraries for mathematical operations, data analysis, and visualization
  - Apply basic libraries to enhance functionality and efficiency in Python programming.

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