WGU Scripting-and-Programming-Foundations Prüfung Übungen und Antworten

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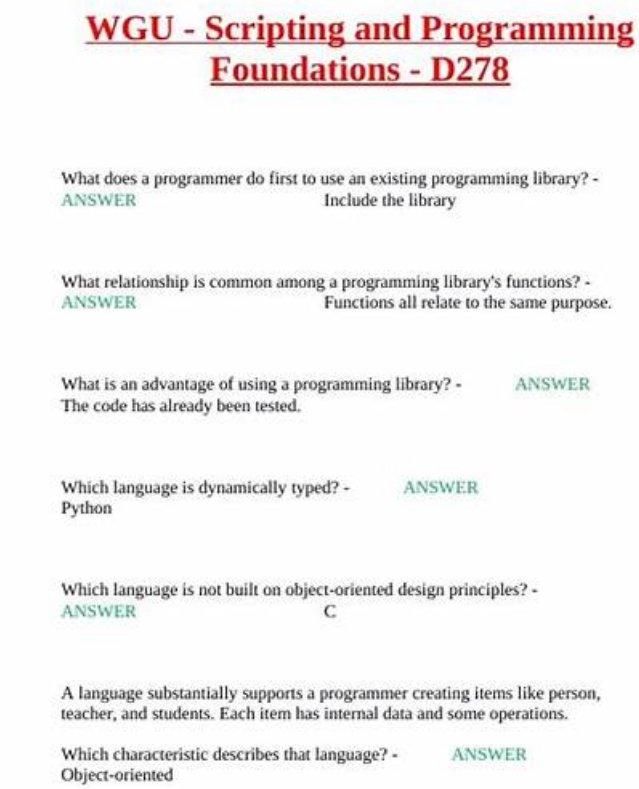

WGU - Scripting and Programming Foundations - D278

What does a programmer do first to use an existing programming library? -
ANSWER Include the library

What relationship is common among a programming library's functions? -
ANSWER Functions all relate to the same purpose.

What is an advantage of using a programming library? - ANSWER
The code has already been tested.

Which language is dynamically typed? - ANSWER
Python

Which language is not built on object-oriented design principles? -
ANSWER C

A language substantially supports a programmer creating items like person, teacher, and students. Each item has internal data and some operations.

Which characteristic describes that language? - ANSWER
Object-oriented

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Scripting-and-Programming-Foundations Buch & Scripting-and-

Programming-Foundations Dumps

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WGU Scripting-and-Programming-Foundations Prüfungsplan:

Thema	Einzelheiten
Thema 1	• Identifying Scripts for Computer Program Requirements: This section of the exam measures the skills of Junior Software Developers and covers the ability to match a task with the correct script or programming approach. It highlights how different scripts can satisfy specific requirements and how to recognize the right structure for a given programming problem.
Thema 2	• Using Fundamental Programming Elements: This section of the exam measures skills of Entry Level Programmers and covers the use of basic programming components required in everyday tasks. It includes working with variables, loops, conditions, and simple logic to perform common operations. The focus is on applying these elements correctly to complete small programming assignments in a clear and organized way.
Thema 3	• Explaining Logic and Outcomes of Simple Algorithms: This section of the exam measures the skills of Entry Level Programmers and covers the ability to read simple algorithms and understand how they work. It focuses on predicting outputs, understanding step by step logic, and identifying how basic instructions create a final result. The goal is to help learners understand algorithm reasoning without requiring advanced coding knowledge.
Thema 4	• Scripting and Programming Foundations: This section of the exam measures the skills of Junior Software Developers and covers the essential building blocks of programming. It focuses on variables, data types, flow control, and basic design concepts. Learners understand how programming logic works and how different languages handle similar tasks. The section also introduces the difference between interpreted and compiled languages in a simple and practical way.

WGU Scripting and Programming Foundations Exam Scripting-and-Programming-Foundations Prüfungsfragen mit Lösungen (Q76-Q81):

76. Frage
Which output results from the following pseudocode?
x = 5
do
x = x + 4
while x < 18
Put x to output

- A. 0
- B. 1
- C. 2
- D. 3

Antwort: B

Begründung:
Comprehensive and Detailed Explanation From Exact Extract:
The pseudocode uses a do-while loop, which executes the loop body at least once before checking the condition. The variable x is updated by adding 4 each iteration, and the loop continues as long as x < 18. The final value of x is output after the loop terminates. According to foundational programming principles, we trace the execution step-by-step.

* Initial State: x = 5.
* First Iteration:
* x = x + 4 = 5 + 4 = 9.
* Check: x < 18 (9 < 18, true). Continue.
* Second Iteration:
* x = x + 4 = 9 + 4 = 13.
* Check: x < 18 (13 < 18, true). Continue.
* Third Iteration:
* x = x + 4 = 13 + 4 = 17.
* Check: x < 18 (17 < 18, true). Continue.
* Fourth Iteration:
* x = x + 4 = 17 + 4 = 21.
* Check: x < 18 (21 < 18, false). Exit loop.
* Output: Put x to output outputs x = 21.
* Option A: "9." Incorrect. This is the value after the first iteration, but the loop continues.
* Option B: "18." Incorrect. The loop stops when x >= 18, so x = 18 is not output.
* Option C: "21." Correct. This is the final value of x after the loop terminates.
* Option D: "25." Incorrect. The loop stops before x reaches 25.
Certiport Scripting and Programming Foundations Study Guide (Section on Loops).
Python Documentation: "While Statements" (https://docs.python.org/3/reference/compound_stmts.html#while).
W3Schools: "C Do While Loop" (https://www.w3schools.com/c/c_do_while_loop.php).

77. Frage
What is required for all function calls?

- A. Input arguments
- B. Parameters
- C. Function name
- D. Output values

Antwort: C

Begründung:
When calling a function in Python, you simply give the name of the function followed by parentheses. Even if the function doesn't take any arguments, you still need to include the parentheses. For example, print ("Hello!") is a function call. The function name should describe what it's supposed to do. Function definitions begin with the def keyword, followed by the function name and parameters (if any). The statements within the function definition are indented and carry out the task the function is supposed to perform2.
References:
* Function Calls and Definitions - Real Python
* Function Calls | Microsoft Learn
* Stack Overflow: Find all function calls by a function

78. Frage
A programmer has been hired to create an inventory system for the books in a library. What is the waterfall phase in which waterfall outlining all the functions that need to be written to support the inventory system?

- A. Analysis
- B. Implementation
- C. Testing
- D. Design

Antwort: D

Begründung:
In the Waterfall model of software development, the phase where all functions that need to be written to support the inventory system would be outlined is the Design phase. This phase is critical as it translates the requirements gathered during the analysis phase into a blueprint for constructing the system. It involves two subphases: logical design and physical design. The logical design subphase is where possible solutions are brainstormed and theorized, while the physical design subphase is when those theoretical

ideas and schemas are turned into concrete specifications12.
References:
* The explanation is based on the standard Waterfall model phases, which include Requirements, Design, Implementation, Verification, and Maintenance. More detailed information on these phases can be found in resources like "Waterfall Methodology: The Ultimate Guide to the Waterfall Model" by ProjectManager1 and other educational platforms2.

79. Frage
One requirement for the language of a protect is that it is based on a series of method calls.
When type of language is characterized in this way?

- A. Static
- B. Functional
- C. Compiled
- D. Markup

Antwort: B

Begründung:
A language characterized by a series of method calls is typically referred to as a functional language. In functional programming, computation is treated as the evaluation of mathematical functions and avoids changing-state and mutable data. It is a declarative programming paradigm, which means programming is done with expressions or declarations instead of statements. In functional languages, functions are first-class citizens, meaning they can be passed as arguments to other functions, returned as values from other functions, and assigned to variables.

80. Frage
What are two examples of equality operators?
Choose 2 answers.

- A. <=
- B. -
- C. ==
- D. /
- E. !=
- F. not

Antwort: C,E

Begründung:
Comprehensive and Detailed Explanation From Exact Extract:
Equality operators compare two values to determine if they are equal or not equal, returning a boolean result.
According to foundational programming principles, common equality operators are == (equal to) and != (not equal to).
* Option A: "-." This is incorrect. The subtraction operator (-) is an arithmetic operator, not an equality operator.
* Option B: "==." This is correct. The equality operator (==) checks if two values are equal (e.g., 5 == 5 returns True).
* Option C: "/." This is incorrect. The division operator (/) is an arithmetic operator, not an equality operator.
* Option D: "not." This is incorrect. The not operator is a logical operator that negates a boolean value, not an equality operator.
* Option E: "<=." This is incorrect. The less-than-or-equal-to operator (<=) is a relational (comparison) operator, not an equality operator.
* Option F: "!=." This is correct. The not-equal-to operator (!=) checks if two values are not equal (e.g., 5 != 3 returns True).
Certiport Scripting and Programming Foundations Study Guide (Section on Operators).
C Programming Language Standard (ISO/IEC 9899:2011, Section on Equality Operators).
W3Schools: "Python Operators" (https://www.w3schools.com/python/python_operators.asp).

81. Frage
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