# Scripting-and-Programming-Foundations Exam Actual Tests, Detail Scripting-and-Programming-Foundations Explanation

**WGU C173 SCRIPTING AND PROGRAMMING – FOUNDATIONS PRACTICE EXAM 2022/2023 DETAILED QUESTIONS AND ANSWERS**

An_____ statement places the variable on the left-side of the = with the current value of the right-side expression. (correct answers)assignment

An _____is a combination of items, like variables, literals, operators, and parentheses, that evaluates to a value. (correct answers)expression

A name created by a programmer for an item like a variable or function is called an _____ which must follow certain rules to be valid. (correct answers)identifier

An _____ is evaluated using precedence rules that follow the evaluation order of standard mathematics. (correct answers)expression

A variable declared as type_____ stores a _____-point number, which is a real number, like 98.6, 0.0001, or -666.667. (correct answers)float

are typically used for values that are counted. (correct answers)Integer variables

are typically used for values that are measured or when dealing with fractions of countable items, such as the average number of cars per household. (correct answers)Floating-point variables

typically have built-in functions to perform common operations needed by programmers, such as performing mathematical operations like square root or raising a number to a power. (correct answers)Programming languages

A _____ is a list of statements, (correct answers)function

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## Detail Scripting-and-Programming-Foundations Explanation - Dumps

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# WGU Scripting and Programming Foundations Exam Sample Questions (Q15-Q20):

**NEW QUESTION # 15**
A software developer determines the mathematical operations that a calculator program should support When two waterfall approach phases are involved?

- A. Design and Testing
- B. Implementation and testing
- C. Design and implementation
- D. Analysis and design

**Answer: D**

Explanation:
Here's the typical flow of the Waterfall software development model:
* Analysis: This phase focuses on defining the problem and gathering detailed requirements for the software. Understanding the specific mathematical operations to support is a key part of this phase.
* Design: Designers turn the requirements from the analysis phase into a concrete blueprint for the software. This includes architectural and detailed design decisions covering how those mathematical operations will be implemented.
* Implementation: Developers take the design and translate it into working code, writing the modules and functions to perform the calculations.
* Testing: Testers verify the software to ensure it meets the requirements, including testing how the implemented calculator functions handle different operations.
* Maintenance: Ongoing support after deployment to address bugs and introduce potential changes or enhancements.
Why the other options are less accurate:
* A. Design and Testing: While testing validates the calculator's functions, the determination of the required operations happens earlier in the process.
* B. Implementation and Testing: Implementation builds the calculator, but the specifications and choice of operations happen before coding starts.
* C. Design and Implementation: Though closely linked, the design phase finalizes the operation choices before implementation begins.

**NEW QUESTION # 16**
What are two examples of equality operators?
Choose 2 answers

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

**Answer: E,F**

Explanation:
Equality operators are used to compare two values or expressions to determine if they are equal or not.
The == operator checks for equality, returning true if the two operands are equal. Conversely, the != operator checks for inequality, returning true if the operands are not equal. These operators are fundamental in programming for control flow, allowing decisions to be made based on the comparison of values.

For example, in a conditional statement, one might use:
if (x == y) {
// Code to execute if x is equal to y
}
And for inequality:
if (x != y) {
// Code to execute if x is not equal to y
}
References: The explanation provided is based on standard programming practices and the definitions of equality operators as commonly used in many programming languages1234.

**NEW QUESTION # 17**
Which expression has a value equal to the rightmost digit of the integer q = 7777?

- A. 10 % q
- B. q / 10000
- C. q % 10000
- D. q % 10

**Answer: D**

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
To find the rightmost digit of an integer q = 7777, we need the units digit (i.e., 7). According to foundational programming principles, the modulo operator (%) with 10 isolates the rightmost digit of a number.
* Option A: "10 % q."
* Compute: 10 % 7777 = 10 (since 10 ÷ 7777 has a remainder of 10).
* Result: 10 # 7. Incorrect.
* Option B: "q % 10."
* Compute: 7777 % 10 = 7 (remainder of 7777 ÷ 10, isolating the units digit).
* Result: 7 = rightmost digit. Correct.
* Option C: "q / 10000."
* Compute: 7777 / 10000 = 0.7777 (floating-point division).
* Result: 0.7777 # 7. Incorrect.
* Option D: "q % 10000."
* Compute: 7777 % 10000 = 7777 (since 7777 < 10000).
* Result: 7777 # 7. Incorrect.
Certiport Scripting and Programming Foundations Study Guide (Section on Modulo Operator).
C Programming Language Standard (ISO/IEC 9899:2011, Section on Multiplicative Operators).
W3Schools: "Python Operators" (https://www.w3schools.com/python/python_operators.asp).

**NEW QUESTION # 18**
Which action occurs during the design phase of an Agile process?

- A. Determining the functions that need to be written
- B. Deciding on the name of the program
- C. Writing the required objects
- D. Determining the goals of the project

**Answer: A**

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
In Agile, the design phase focuses on creating technical specifications and plans for implementing the software, including identifying functions, classes, or modules. According to foundational programming principles, this phase bridges requirements (from analysis) to coding (in implementation).
* Option A: "Determining the functions that need to be written." This is correct. During the design phase, the team specifies the functions, methods, or components (e.g., function signatures, class methods) required to meet the requirements. For example, designing a calculateTotal() function for an e- commerce system occurs here.

* Option B: "Determining the goals of the project." This is incorrect. Project goals are established during the analysis phase, where requirements and user stories are defined.
* Option C: "Writing the required objects." This is incorrect. Writing code (e.g., implementing classes or objects) occurs during the implementation phase, not design.
* Option D: "Deciding on the name of the program." This is incorrect. Naming the program is a minor decision, typically made earlier (e.g., during project initiation or analysis), and is not a primary focus of the design phase.
Certiport Scripting and Programming Foundations Study Guide (Section on Agile Design Phase).
Agile Alliance: "Agile Design" (https://www.agilealliance.org/glossary/design/).
Fowler, M., Refactoring: Improving the Design of Existing Code (design principles in Agile).

**NEW QUESTION # 19**
A particular sorting takes integer list 10,8 and incorrectly sorts the list to 6, 10, 8.
What is true about the algorithm's correctness for sorting an arbitrary list of three integers?

- A. The algorithm only works for 10,6, 8
- B. The algorithm's correctness is unknown
- C. The algorithm is correct
- D. The algorithm is incorrect

**Answer: D**

Explanation:
The correctness of a sorting algorithm is determined by its ability to sort a list of elements into a specified order, typically non-decreasing or non-increasing order. For an algorithm to be considered correct, it must consistently produce the correct output for all possible inputs. In the case of the given algorithm, it takes the input list [10, 8] and produces the output [6, 10, 8], which is not sorted in non-decreasing order. This indicates that the algorithm does not correctly sort the list, as the output is neither sorted nor does it maintain the integrity of the original list (the number 6 was not in the original list).
Furthermore, the fact that the output contains an integer (6) that was not present in the input list suggests that the algorithm is not preserving the elements of the input list, which is a fundamental requirement for a sorting algorithm. This violation confirms that the algorithm is incorrect for sorting an arbitrary list of three integers, as it cannot be relied upon to sort correctly or maintain the original list elements.
References: The principles of algorithm correctness can be found in various computer science literature and online resources. They often involve ensuring that the algorithm adheres to its preconditions and postconditions, and that it produces a valid output for all valid inputs1234.

**NEW QUESTION # 20**
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