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WGU Scripting and Programming Foundations Exam Sample Questions (Q107-Q112):

NEW QUESTION # 107

Which expression evaluates to 4 if integer $y = 3$?

- A. $11 + y \% 5$
- B. $0 - y / 5.0$
- C. $11.0 - y / 5$
- D. $(1 + y) * 5$

Answer: A

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Given $y = 3$ (an integer), we need to evaluate each expression to find which yields 4. According to foundational programming principles, operator precedence and type handling (e.g., integer vs. floating-point division) must be considered.

* Option A: " $0 - y / 5.0$."

* Compute: $y / 5.0 = 3 / 5.0 = 0.6$ (floating-point division due to 5.0).

* Then: $0 - 0.6 = -0.6$.

* Result: $-0.6 \neq 4$. Incorrect.

* Option B: " $(1 + y) * 5$."

* Compute: $1 + y = 1 + 3 = 4$.

* Then: $4 * 5 = 20$.

* Result: $20 \neq 4$. Incorrect.

* Option C: " $11.0 - y / 5$."

* Compute: $y / 5 = 3 / 5 = 0$ (integer division, as both are integers).

* Then: $11.0 - 0 = 11.0$.

* Result: $11.0 \neq 4$. Incorrect.

* Option D: " $11 + y \% 5$."

* Compute: $y \% 5 = 3 \% 5 = 3$ (remainder of $3 \div 5$).

* Then: $11 + 3 = 14$.

* Result: $14 \neq 4$.

Correction Note: None of the options directly evaluate to 4 with $y = 3$. However, based on standard problem patterns, option D's expression $11 + y \% 5$ is closest to typical correct answers in similar contexts, but the expected result should be re-evaluated.

Assuming a typo in the options or expected result, let's test a likely correct expression:

* If the expression were $1 + y \% 5$:

* $y \% 5 = 3$, then $1 + 3 = 4$.

* This fits, but it's not listed. Since D is the most plausible based on structure, we select it, noting a potential error in the problem.

Answer (Tentative): D (with note that the problem may contain an error, as no option yields exactly 4).

Certiport Scripting and Programming Foundations Study Guide (Section on Operators and Expressions).

Python Documentation: "Arithmetic Operators" (<https://docs.python.org/3/reference/expressions.html#binary-arithmetic-operations>).

W3Schools: "C Operators" (https://www.w3schools.com/c/c_operators.php).

NEW QUESTION # 108

What is output by calling Greeting() twice?

- A. Hello!!
- B. Hello!Hello!
- C. Hello!

Answer: B

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

The question is incomplete, as the definition of the Greeting() function is not provided. However, based on standard programming problem patterns and the output options, we assume Greeting() is a function that outputs "Hello!" each time it is called. According to foundational programming principles, calling a function multiple times repeats its output unless state changes occur.

* Assumption: Greeting() outputs "Hello!" to the console (e.g., in Python: `def Greeting(): print("Hello!")`).

* Calling Greeting() twice outputs "Hello!" twice, concatenated in the output stream as "Hello!Hello!" (assuming no extra newlines or spaces, as is typical in such problems).

* Option A: "Hello!." This is incorrect. A single "Hello!" would result from one call, not two.

* Option B: "Hello!!." This is incorrect. This suggests a modified output (e.g., adding an extra !), which is not implied by the function's behavior.

* Option C: "Hello!Hello!." This is correct. Two calls to Greeting() produce "Hello!" twice, appearing as "Hello!Hello!" in the output.

Certiport Scripting and Programming Foundations Study Guide (Section on Function Calls and Output).

Python Documentation: "Print Function" (<https://docs.python.org/3/library/functions.html#print>).

W3Schools: "C Output" (https://www.w3schools.com/c/c_output.php).

NEW QUESTION # 109

A program steps through an array and adds up all the numbers stored in the array. What is the appropriate individual control structure that should be used?

- A. Nested for loops
- B. Multiple if statements
- C. One while loop
- **D. One for loop**

Answer: D

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

To sum all numbers in an array, the program must iterate through each element exactly once and add it to a running total. According to foundational programming principles (e.g., Certiport Scripting and Programming Foundations Study Guide), a for loop is the most appropriate control structure for iterating over a known sequence like an array.

* Task Analysis:

* Input: An array of numbers (e.g., [1, 2, 3]).

* Operation: Iterate through each element and add to a sum (e.g., $1 + 2 + 3 = 6$).

* A single loop is sufficient, as the task involves a single pass through the array.

* Option A: "One while loop." This is incorrect. While a while loop can iterate through an array (e.g., using an index variable), it requires manual index management (e.g., `i = 0; while i < length`), making it less concise and more error-prone than a for loop for this task.

* Option B: "Nested for loops." This is incorrect. Nested loops are used for multi-dimensional arrays or multiple iterations (e.g., matrix operations), but summing a single array requires only one loop.

* Option C: "Multiple if statements." This is incorrect. If statements are for conditional logic, not iteration. They cannot traverse an array to sum elements.

* Option D: "One for loop." This is correct. A for loop is ideal for iterating over an array's elements. For example, in Python:

```
numbers = [1, 2, 3]
```

```
total = 0
```

```
for num in numbers:
```

```
total += num
```

Or in C:

```
c
```

```
int numbers[] = {1, 2, 3};
```

```
int total = 0;
```

```
for (int i = 0; i < 3; i++) {
```

```
total += numbers[i];
```

```
}
```

Certiport Scripting and Programming Foundations Study Guide (Section on Control Structures: Loops).

Python Documentation: "For Statements" (<https://docs.python.org/3/tutorial/controlflow.html#for-statements>).

NEW QUESTION # 110

A software engineer has written a program that uses a large number of interacting custom data types information hiding, data abstraction encapsulation polymorphism, and inheritance Variables do not need to receive their types ahead of time, and this program can run on a variety of operating systems without having to re-compile the program into machine code.

Which type of language is being used? Choose 3 terms that accurately describe the language.

- A. Interpreted
- B. Procedural
- C. Markup
- D. Object-oriented
- E. Dynamic
- F. Static

Answer: A,D,E

Explanation:

The language described in the question exhibits characteristics of an interpreted, object-oriented, and dynamic language. Here's why these terms apply:

* Interpreted: The program can run on various operating systems without re-compilation, which is a trait of interpreted languages. Interpreted languages are executed line by line by an interpreter at runtime, rather than being compiled into machine code beforehand¹²³.

* Object-oriented: The use of concepts like information hiding, data abstraction, encapsulation, polymorphism, and inheritance are hallmarks of object-oriented programming (OOP). OOP languages are designed around objects and classes, which allow for modular, reusable, and organized code⁴⁵⁶.

* Dynamic: Variables in the program do not need to have their types declared ahead of time, indicating dynamic typing. In dynamically typed languages, type checking is performed at runtime, and variables can be assigned to different types of data over their lifetime⁷⁸⁹¹⁰¹¹.

References:

* Interpreted languages¹²³.

* Object-oriented programming characteristics⁴⁵⁶.

* Dynamic typing in programming⁷⁸⁹¹⁰¹¹.

NEW QUESTION # 111

A sample function is shown:



```
function F(integer x) returns y
y = 4 * x - 3
```

What is returned for F(3)?

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

Answer: D

Explanation:

Let's evaluate F(3):

* $F(3) = (4 * 3) - 8$

* $F(3) = 12 - 8$

* $F(3) = 4$

NEW QUESTION # 112

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