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WGU D278 OA Exam | Scripting and Programming Foundations | Study Questions and Answers Rated A+ | 2025/2026 Guide

Type Conversions **Correct Answer** Converts one data type to another (e.g., integer → float).

Implicit Conversions (Automatic) **Correct Answer** Arithmetic Operators (+, *, etc.): If either operand is a float, the other is converted to float, and a floating-point operation is performed.

Ex: $0.504 * \text{numBirths}$ (if numBirths is an integer) → numBirths is converted to float.

Assignments (=): The right side's type is converted to match the left side's type.

Ex: Assigning a float to an integer variable will drop the fraction.

Conversions **Correct Answer** Integer → Float: Adds a .0.

Ex: $25 \rightarrow 25.0$.

Float → Integer: Drops the fractional part.

Ex: $4.9 \rightarrow 4$.

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WGU Scripting and Programming Foundations Exam Sample Questions (Q24-Q29):

NEW QUESTION # 24

Which two situations would be helped by using a programming library?

- A. A programmer is writing a piece of mathematical code that requires the heavy use of recursive functions.
- B. A programming student is writing code to iterate through the integers in a list and determine the maximum.
- C. A programmer needs to write several interacting objects for a student gradebook application, some of which need an inheritance structure.
- D. A video game programmer needs to perform several animation tasks, all of which are very common in the industry. The programmer does not want to have to code each task. And they are unsure if they even know how to code a few of them.
- E. A programmer needs to perform a series of file compression tasks. These tasks are commonly performed by programmers, and the programmer does not want to have to code them all by hand.
- F. A programmer is developing a database application that can house various types of data. The software cannot know ahead of time the data type, and so the programmer needs variables that do not require an initial declaration type.

Answer: D,E

Explanation:

Programming libraries are collections of pre-written code that programmers can use to perform common tasks without having to write the code from scratch. They are particularly helpful in situations where:

* The tasks are common and standardized across the industry, such as animation tasks in video games (Option C). Using a library can save time and resources, and also ensure that the animations are up to industry standards.

* The tasks are well-known and frequently performed by many programmers, such as file compression (Option D). Libraries provide a reliable and tested set of functions that can handle these tasks efficiently.

For the other options:

* A: While a library could be used, writing interacting objects and implementing inheritance is a fundamental part of object-oriented programming and may not necessarily require a library.

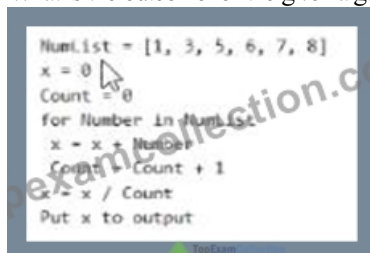
* B: Iterating through a list to find the maximum value is a basic programming task that typically doesn't require a library.

* E: Dynamic typing or the use of variables without an initial declaration type is a feature of the programming language itself rather than a library.

* F: Recursive functions are a programming concept that can be implemented without the need for a library, unless the recursion is part of a specific algorithm that a library might provide.

NEW QUESTION # 25

What is the outcome for the given algorithm? Round to the nearest tenth, if necessary.



```
NumList = [1, 3, 5, 6, 7, 8]
x = 0
Count = 0
for Number in NumList:
    x = x + Number
    Count = Count + 1
x = x / Count
Put x to output
```

- A. 5.0
- B. 6.0
- C. 8.4
- D. 6.1

Answer: A

Explanation:

- * Initialize two variables: x and Count to zero.
- * Iterate through each number in the NumList.
- * For each number in the list:
- * Add the number to x.
- * Increment Count by one.
- * After processing all numbers in the list, calculate the average:
- * $\text{Average} = x / \text{Count}$.

The NumList contains the following integers: [1, 3, 5, 6, 7, 8].

Calculating the average: $(1 + 3 + 5 + 6 + 7 + 8) / 6 = 30 / 6 = 5.0$.

However, none of the provided options match this result. It seems there might be an error in either the options or the calculation.

References: This explanation is based on understanding and analyzing the provided algorithm image; no external references are used.

NEW QUESTION # 26

A programmer is developing an application that needs to manipulate text in a variety of ways. Everything the programmer needs is standard in the industry and the programmer wants to perform these manipulations with a minimal amount of code. What does the programmer need?

- **A. A programming library**
- B. An algorithm
- C. A script
- D. A function

Answer: A

Explanation:

In the context of text manipulation, a programming library is a collection of pre-written code that provides standard functions and procedures to perform common tasks. This allows programmers to perform text manipulations with a minimal amount of code, as they can leverage the functions provided by the library instead of writing everything from scratch. Libraries often include functions for string handling, such as searching, splitting, joining, and formatting strings, which are standard requirements in many applications¹²³⁴.

References:

* The explanation is based on common practices in software development where libraries are used to simplify and expedite coding tasks. For more information on text manipulation in programming and the use of libraries, you can refer to resources such as freeCodeCamp¹, GeeksforGeeks², and other reputable programming tutorials and documentation.

NEW QUESTION # 27

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

Answer: A,C,F

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 # 28

What is required for all function calls?

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

Answer: D

Explanation:

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

NEW QUESTION # 29

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