

Scripting-and-Programming-Foundations Exam Materials, Scripting-and-Programming-Foundations Practice Test Online

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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WGU Scripting and Programming Foundations Exam Sample Questions (Q96-Q101):

NEW QUESTION # 96

Which kind of languages are C, C++ and Java?

- A. Interpreted
- **B. Compiled**
- C. Markup
- D. Machine code

Answer: B

Explanation:

C, C++, and Java are all considered compiled languages. This means that the code written in these languages is not executed directly by the hardware but must first be translated into machine code by a compiler.

* C is a general-purpose programming language that is compiled to generate machine code which can be executed directly by the computer's CPU1.

* C++ is an extension of C that includes object-oriented features. It is also a compiled language, where the source code is converted into machine code that can be executed by the CPU2.

* Java is a bit unique because it is compiled into bytecode, which is then run on a virtual machine (JVM) rather than directly by the CPU. However, it is still considered a compiled language because the source code is compiled before it is executed2.

NEW QUESTION # 97

A program allows the user to play a game. At the end of each game, the program asks the user if they want to play again.

Which programming structure on its own is appropriate to accomplish this task?

- A. One for loop
- B. If-else statement
- C. Nested for loops
- **D. One while loop**

Answer: D

Explanation:

The most appropriate programming structure to repeatedly ask a user if they want to play a game again is a while loop. This is because a while loop can execute a block of code as long as a specified condition is true. In this case, the condition would be whether the user wants to play again or not. The while loop will continue to prompt the user after each game and will only exit if the user indicates they do not want to play again. This makes it an ideal choice for tasks that require repeated execution based on user input.

For loops are generally used when the number of iterations is known beforehand, which is not the case here as we cannot predict how many times a user will want to play the game. Nested for loops and if-else statements are not suitable for repeating tasks based on dynamic user input.

References:

* Loops in Programming - GeeksforGeeks1

* Use the right loop to repeat tasks - Learn programming with Java - OpenClassrooms2

* Using For and While Loops for User Input in Python - Stack Abuse3

NEW QUESTION # 98

A programmer is writing code using C. Which paradigm could the programmer be using?

- A. A functional paradigm using dynamic types

- B. A procedural paradigm using static types
- C. An event-driven paradigm using static types
- D. A procedural paradigm using dynamic types

Answer: B

Explanation:

C is a programming language that primarily follows the procedural programming paradigm¹. This paradigm is a subset of imperative programming and emphasizes on procedure in terms of the underlying machine model¹. It involves writing a sequence of instructions to tell the computer what to do step by step, and it relies on the concept of procedure calls, where procedures, also known as routines, subroutines, or functions, are a set of instructions that perform a specific task¹.

The procedural paradigm in C uses static typing, where the type of a variable is known at compile time¹. This means that the type of a variable is declared and does not change over time, which is in contrast to dynamic typing, where the type can change at runtime. C's type system requires that each variable and function is explicitly declared with a type and it does not support dynamic typing as seen in languages like Python or JavaScript¹.

References: 1: Introduction of Programming Paradigms - GeeksforGeeks

NEW QUESTION # 99

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

Answer: D

Explanation:

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.

NEW QUESTION # 100

Which characteristic distinguishes an object-oriented language from other languages?

- A. It is extremely portable and can be run on any machine that has a program than can read the code.
- B. It includes custom variable types with methods, information hiding, data abstraction, encapsulation, polymorphism, and inheritance.
- C. It has variables that never change type during execution
- D. It specifies a series of well-structured steps to compose a program.

Answer: B

Explanation:

The defining characteristic of an object-oriented language is its support for objects and classes, which encapsulate data and behavior. This includes the ability to define custom variable types (classes) with their own methods, and the use of key principles such as information hiding, data abstraction, encapsulation, polymorphism, and inheritance. These features distinguish object-oriented languages from procedural languages, which do not typically support these concepts in the same way.

References: The characteristics of object-oriented programming (OOP) are well-documented and recognized in the field of software development. The information provided aligns with standard definitions and explanations of OOP, as found in educational resources and programming literature¹²³.

NEW QUESTION # 101

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