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Scripting And Programming - Foundations - WGU C173

What is an editor? - A program that allows you to write code

What is a compiler? - A program that produces other programs. The compiler does all the work at once and then runs the new program. We're translating the code we wrote to computer code all at once. This is often when we produce an .exe (executable) file.

What is an interpreter? - A program that runs code one line at a time. Instead of converting all of the code at once it runs each line as it's needed. It interprets that specific line from your code to computer code.

What is an operator and what does it do? - An operator takes two operands (values) and does something with them. It is an object capable of manipulating a value. If it is a comparison or logical operator it would compare to see if they are similar or dissimilar. If it is a mathematical operator it would perform mathematical calculations.

What is an expression? - something that has a value.

What is the difference in a terminal and non-terminal expression? - A terminal is a final value, while a non-terminal can be reduced further.

What is proper Python grammar for making an expression? - Expression → Expression Operator Expression

The Expression non-terminal that appears on the left side can be replaced by an Expression, followed by an Operator, followed by another Expression. For example, $1 + 1$ is an Expression Operator Expression.

What is a variable? - a name that refers to a value

What are the three main types of data covered? How do you declare each one? - string is a sequence of characters surrounded by quotes, either single or double
example: `myVar = "string data"`

Integer is a number - example: `myVar = 33`

Boolean is a true or false value - example: `myVar = True`

What is grammar used for in programming? - In a programming language like Python, the code must match the language grammar exactly. When programming language grammar is not followed the interpreter will return a Syntax Error message. This means that the structure of the code is inconsistent with the rules of the programming language.

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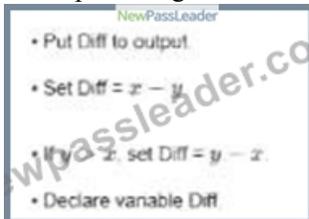
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WGU Scripting and Programming Foundations Exam Sample Questions (Q69-Q74):

NEW QUESTION # 69

The steps in an algorithm to calculate the positive difference in two given values, x and y, are given in no particular order:



What is the first step of the algorithm?

- A. Put Diff to output
- B. If $y > x$, set $\text{Diff} = y - x$.
- C. Deduce variable Diff
- D. Set $\text{Diff} = x - y$

Answer: C

Explanation:

The first step in the algorithm to calculate the positive difference between two given values, x and y, is to declare the variable Diff. This is essential as it initializes the variable that will be used to store the calculated difference between x and y. The subsequent steps involve conditional statements and arithmetic operations that utilize this declared variable to compute and store the positive difference. References: N/A (as per image provided) The image shows steps of an algorithm listed in no particular order for calculating the positive difference between two values, making it relevant for understanding or teaching algorithmic logic and sequence.

NEW QUESTION # 70

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

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

Answer: D

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 CPU.

* 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 # 71

A software team has been commissioned to create an animation application. Which event takes place during the analysis phase in the agile approach?

- A. Deciding that new capabilities in the animation application will be written as functions without the needs of any new objects
- B. Sending the application to customers for additional evaluation after new features are added
- C. Deciding to add five new capabilities to the animation application based on customer feedback
- D. Writing the code for five new capabilities

Answer: A

Explanation:

* This is the most likely event during the analysis phase. It involves:

* Understanding the requirements: What specific capabilities are needed?

* Breaking down the problem: How can those capabilities be achieved within the existing codebase, potentially by leveraging functions to organize and reuse code.

* Technical Design: Starting to think about the structure of the solution without diving fully into implementation.

NEW QUESTION # 72

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

Answer: B

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 # 73

What would a string be used to store?

- A. The word "positive"
- B. A positive whole number
- C. A positive number between 2 and 3
- D. A true/false indication of whether a number is composite

Answer: A

Explanation:

In programming, a string is used to store sequences of characters, which can include letters, numbers, symbols, and spaces. Strings are typically utilized to store textual data, such as words and sentences¹². For example, the word "positive" would be stored as a

string. While strings can contain numbers, they are not used to store numbers in their numeric form but rather as text. Therefore, options A, C, and D, which involve numbers or boolean values, would not be stored as strings unless they are meant to be treated as text.

References: 1: Coderslang: Become a Software Engineer - What is a String in Programming. 2: Wikipedia - String (computer science).

NEW QUESTION # 74

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