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Scripting and Programming - Foundations

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Email the instructor group email when you start and ask for the quizzes called:

- Intro to Computer Programming
- Basic Constructs of Programming
- Algorithms
- The Design Process
- Programming Languages

☐ Complete Content Course (archived, can skip this!)

- [New Version](#)

☐ Go Through Zybooks

- Prioritize chapters 1,2, 8 & 9, Breeze through Ch 3-6 but do the labs!
- Lab solutions are in Course Tips > Supplemental Resources

☐ Take the Instructor Quizzes mentioned in the box at the top.

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Scripting and Programming - Foundations

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WGU Scripting-and-Programming-Foundations Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"> Using Fundamental Programming Elements: This section of the exam measures skills of Entry Level Programmers and covers the use of basic programming components required in everyday tasks. It includes working with variables, loops, conditions, and simple logic to perform common operations. The focus is on applying these elements correctly to complete small programming assignments in a clear and organized way.
Topic 2	<ul style="list-style-type: none"> Explaining Logic and Outcomes of Simple Algorithms: This section of the exam measures the skills of Entry Level Programmers and covers the ability to read simple algorithms and understand how they work. It focuses on predicting outputs, understanding step by step logic, and identifying how basic instructions create a final result. The goal is to help learners understand algorithm reasoning without requiring advanced coding knowledge.
Topic 3	<ul style="list-style-type: none"> Scripting and Programming Foundations: This section of the exam measures the skills of Junior Software Developers and covers the essential building blocks of programming. It focuses on variables, data types, flow control, and basic design concepts. Learners understand how programming logic works and how different languages handle similar tasks. The section also introduces the difference between interpreted and compiled languages in a simple and practical way.
Topic 4	<ul style="list-style-type: none"> Identifying Scripts for Computer Program Requirements: This section of the exam measures the skills of Junior Software Developers and covers the ability to match a task with the correct script or programming approach. It highlights how different scripts can satisfy specific requirements and how to recognize the right structure for a given programming problem.

WGU Scripting and Programming Foundations Exam Sample Questions (Q53-Q58):

NEW QUESTION # 53

Which term refers to a function that represents the number of fixed-size memory units used for an input of a given size?

- A. Computational complexity
- B. Runtime
- C. Space complexity
- D. Linear search

Answer: C

Explanation:

Space complexity refers to the amount of memory space required by an algorithm in relation to the size of the input data. It is a function, often denoted as $S(N)$, that represents the number of fixed-size memory units used by the algorithm for an input of size N . For example, if an algorithm needs to create a new array that is the same size as the input array, its space complexity would be linear, or $O(N)$, where N is the size of the input array. This term is crucial in evaluating the efficiency of an algorithm, especially when working with large data sets or in systems with limited memory resources.

References: The definition and explanation of space complexity can be found in various educational resources and literature on data structures and algorithms, such as computer science textbooks and online educational platforms¹².

NEW QUESTION # 54

What is a characteristic of an interpreted language?

- A. Has a programmer writing machine code.
- **B. Can be run by a user one statement at a time.**
- C. Is restricted to running on one machine.
- D. Generates syntax errors during compilation.

Answer: B

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

An interpreted language is executed directly by an interpreter, which reads and executes the source code line by line without requiring a separate compilation step. According to foundational programming principles, this allows for flexibility, such as running code interactively or one statement at a time.

* Option A: "Generates syntax errors during compilation." This is incorrect. Interpreted languages (e.g., Python, JavaScript) do not undergo a compilation phase. Syntax errors are detected during execution by the interpreter, not during a compilation step.

* Option B: "Can be run by a user one statement at a time." This is correct. Interpreted languages often support interactive execution, where users can input and execute code one statement at a time (e.g., in Python's REPL or JavaScript's browser console). This is a hallmark of interpreters.

* Option C: "Has a programmer writing machine code." This is incorrect. No high-level programming language, interpreted or compiled, requires programmers to write machine code. Interpreted languages use high-level source code executed by an interpreter.

* Option D: "Is restricted to running on one machine." This is incorrect. Interpreted languages are typically portable across machines, as long as the interpreter is available (e.g., Python runs on Windows, macOS, and Linux with the same source code).

Certiport Scripting and Programming Foundations Study Guide (Section on Interpreted Languages).

Python Documentation: "Interactive Mode" (<https://docs.python.org/3/tutorial/interpreter.html>).

W3Schools: "JavaScript Introduction" (https://www.w3schools.com/js/js_intro.asp).

NEW QUESTION # 55

Which characteristic specifically describes an object-oriented language?

- **A. Supports creating program as item that have data plus operations**
- B. Can be run on any machine that has an interpreter
- C. Requires a compiler to convert to machine code
- D. Supports creating programs as a set of functions

Answer: A

Explanation:

Object-oriented programming (OOP) is characterized by the concept of encapsulating data and operations within objects. This characteristic is fundamental to OOP and distinguishes it from procedural programming, which is structured around functions rather than objects. In OOP, objects are instances of classes, which define the data (attributes) and the operations (methods) that can be performed on that data. This encapsulation of data and methods within objects allows for more modular, reusable, and maintainable code.

The characteristics of object-oriented programming languages are well-documented and include encapsulation, abstraction, inheritance, and polymorphism. These principles are foundational to OOP and are supported by languages like C++, Java, and Python12345.

NEW QUESTION # 56

A team of programmers describes the objects and functions in a program that compresses files before splitting the objects.

Which two waterfall approach phases are involved?

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

Answer: B

Explanation:

The Waterfall Model is a sequential design process used in software development, where progress is seen as flowing steadily

downwards through several phases like a waterfall. In the context of the question, describing the objects and functions in a program that compresses files before splitting the objects involves two specific phases:

* Design Phase: This is where the system's architecture, components, interfaces, and data are all defined.

The team would design the objects and functions necessary for the file compression program during this phase.

* Implementation (or Development) Phase: Following the design, the actual code is written during the implementation phase. The objects and functions described in the design phase are created and tested to ensure they work as intended.

These two phases are critical in the Waterfall approach for transitioning from an abstract understanding of the problem to a concrete implementation in code. The analysis phase is more about understanding the problem and requirements, while testing is a separate phase that comes after implementation.

References:

* GeeksforGeeks article on Waterfall Model¹.

* Built In's explanation of Waterfall Methodology².

* Forbes Advisor's overview of Waterfall Methodology³.

NEW QUESTION # 57

Which action occurs during the design phase of an Agile process?

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

Answer: B

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 # 58

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