New Scripting-and-Programming-Foundations Test Sims, Scripting-and-Programming-Foundations Exam Study Guide

D278 NOTES

What I think you should do:
- I recommend mostly doing what I did. Start with the instructor-made videos. Listen carefully to the advice in the videos on what to study the most.
- This is probably going to take you longer than 42 hours of work if you are brand new to programming, but the "Supplemental Resources" are great and should provide you with pretty much everything you need to know. It's possible that you might have to refer to the official course material at least sometimes, but I did not.
- Know your SDLC, Agile vs. waterfall, UML, data types, control structures, data structures, logic, functions, pseudocode, algorithms, and programming languages (and characteristics of each type).
- I think a good time to take the Pre-A is after taking notes on all the instructor made videos and reviewing. Then you'll be able to see what topic you need to study more thoroughly.
- I found this exam to be moderate difficulty, if you're comfortable with the Pre-A, you should be good to go. I found the Pre-A to be similar to the OA; same topics, just different questions.
- Remember that programming is pretty hard, so be patient with it, it takes a long time to learn.

C173 Scripting and Programming Foundations course:
1. **Introduction to Programs:**
   - Programs consist of instructions executed one at a time.
   - Basic instructions include:
     - **Input:** Obtaining data from sources like files, keyboards, touchscreens, or networks.
     - **Process:** Performing computations on the data (e.g., adding values).
     - **Output:** Placing the processed data somewhere (e.g., to a file, screen, or network).
   - **Variables:**
     - Refer to data (e.g., x, y, z).
     - Variables' names reflect their varying values as the program assigns new data to them.
   - **Algorithm:**
     - A sequence of instructions that solves a problem.
   - **Flowcharts:**
     - Graphical language for creating or viewing computer programs.
     - Coral language is used for learning to program.
     - Each statement in a flowchart is represented by a graphical node.
     - Coral uses an interpreter to run program statements.
2. **String Literals and Newlines:**
   - **String literal:** Text within double quotes (e.g., "Go# 57").
   - **Character:** Includes letters (a-z, A-Z), digits (0-9), or symbols (~, !, @, etc.).
   - **Cursor:** Indicates where the next output item will be placed.
   - **Newline:** A special two-character sequence (\n) that moves the cursor to the next output line invisibly.

Remember, these are just highlights, and there's much more to explore in the course! If you need further details or have specific questions, feel free to as

Don't underestimate the difficulty level of the WGU Scripting-and-Programming-Foundations certification exam because it is not easy to clear. You need to prepare real Scripting-and-Programming-Foundations exam questions to get success. If you do not prepare with actual Scripting-and-Programming-Foundations Questions, there are chances that you may fail the final and not get the Scripting-and-Programming-Foundations certification.

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>> New Scripting-and-Programming-Foundations Test Sims <<

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It was a Xi'an coach byword that if you give up, the game is over at the same time. The game likes this, so is the exam. Not having

enough time to prepare for their exam, many people give up taking IT certification exam. However, with the help of the best training materials, you can completely pass WGU Scripting-and-Programming-Foundations test in a short period of time. Don't you believe in it? TestValid real questions and answers are the materials that it can help you get high marks and pass the certification exam. Please try it.

WGU Scripting and Programming Foundations Exam Sample Questions (Q29-Q34):

NEW QUESTION # 29
Review the following sequence diagram:
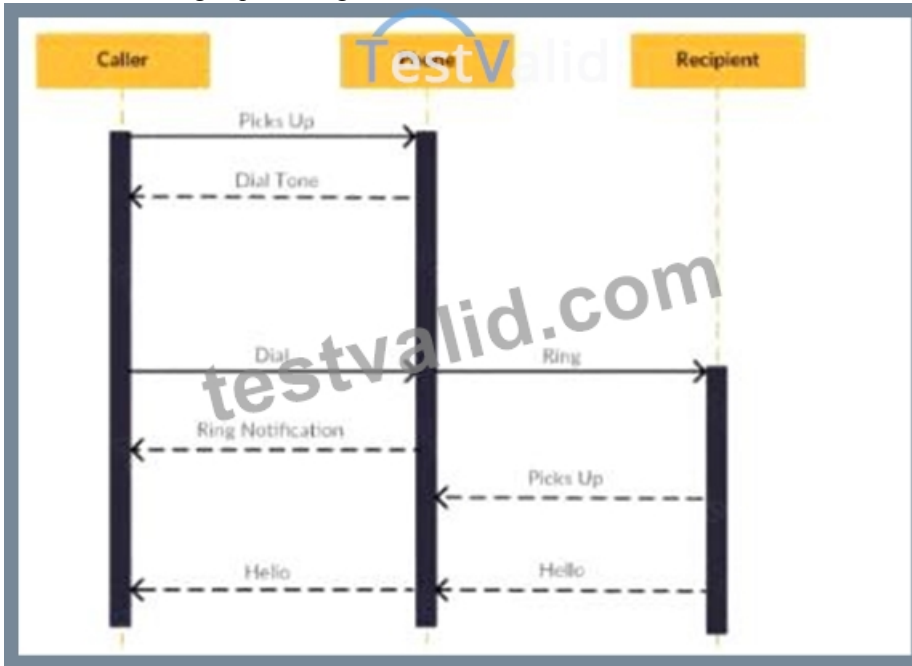
What does a sequence diagram do?

- A. Shows interactions but does not specify an order of events
- B. Shows interactions awl indicates an order of events
- C. Shows sialic elements of software
- D. Shows an order of events but does not specify all interactions

Answer: B

Explanation:
A sequence diagram is a type of interaction diagram used in software engineering to model the interactions between objects within a system over time. It shows how objects interact with each other and the order in which those interactions occur. The sequence diagram is organized along two dimensions: horizontally to represent the objects involved, and vertically to represent the time sequence of interactions. This allows the diagram to depict not only the interactions but also the sequence of events as they occur over time12345.
Option B is incorrect because a sequence diagram does indeed specify an order of events. Option C is incorrect as sequence diagrams do not show static elements of software but rather the dynamic interactions. Option D is also incorrect because a sequence diagram does show all interactions along with their order.
References: The purpose and structure of sequence diagrams are well-documented in various educational resources, such as Visual Paradigm1, Creately's guide2, and Wikipedia3. These sources provide detailed explanations and examples of sequence diagrams, confirming their use in displaying interactions and the order of events.

NEW QUESTION # 30
An algorithm to calculate the positive difference in two given values, x and y, uses the steps shown.
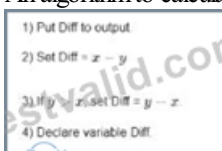
What are the two steps of the algorithm that need to be switched to result in success?

- A. 3 and 4
- B. 2 and 4
- C. 1 and 2
- D. 1 and 4

Answer: D

Explanation:
The algorithm's success depends on the correct sequence of steps. The steps should first declare the variable Diff before attempting to use it in calculations. If the declaration of Diff (step 4) is not done prior to its use (step 1), the algorithm will attempt to use an undeclared variable, which will result in an error.
Therefore, switching steps 1 and 4 ensures that Diff is declared before any operations are performed on it.
References: The importance of the correct sequence of steps in algorithm design is a fundamental concept in programming and can be found in introductory texts on algorithms and programming languages. It is also a standard practice in software development to declare variables before their use to avoid runtime errors.

NEW QUESTION # 31
Which characteristic specifically describes an object-oriented language?

- A. Supports creating program as item that have data plus operations
- B. Requires a compiler to convert to machine code
- C. Can be run on any machine that has an interpreter
- 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 # 32
Which phase of an agile application would create a function that calculates shipping costs based on an item's weight and delivery zip code?

- A. Testing
- B. Analysis
- C. Implementation
- D. Design

Answer: C

Explanation:
In the Agile software development life cycle, the Implementation phase is where the actual coding and development of the project take place. This is the stage where a function to calculate shipping costs based on an item's weight and delivery zip code would be created. The Implementation phase involves translating the design and analysis work into functional software components. It's during this phase that developers write code and build features that will eventually be tested and refined in subsequent phases.

NEW QUESTION # 33
A function should determine the average of x and y.
What should be the function's parameters and return value(s)?

- A. Parameters: averageReturn values: x, y
- B. Parameters: x, yReturn value: average
- C. Parameters: nonsReturn values: x, y
- D. Parameters: x, y. averageReturn value: none

Answer: B

Explanation:
In programming, a function that calculates the average of two numbers will require both numbers as input to perform the calculation. These inputs are known as parameters. Once the function has completed its calculation, it should return the result. In this case, the result is the average of the two numbers, which is the return value.
Here's a simple example in pseudocode:

```
function calculateAverage(x, y) {
average = (x + y) / 2
return average
}
```

In this function, x and y are the parameters, and the average is the calculated value that the function returns after execution.

NEW QUESTION # 34

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