

Scripting-and-Programming-Foundations

Musterprüfungsfragen, Scripting-and-Programming-Foundations Prüfungsvorbereitung

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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WGU Scripting-and-Programming-Foundations Prüfungsplan:

Thema	Einzelheiten
Thema 1	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.

Thema 2	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.
Thema 3	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.
Thema 4	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.

>> Scripting-and-Programming-Foundations Musterprüfungsfragen <<

Scripting-and-Programming-Foundations Prüfungsvorbereitung - Scripting-and-Programming-Foundations Pruefungssimulationen

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WGU Scripting and Programming Foundations Exam Scripting-and-Programming-Foundations Prüfungsfragen mit Lösungen (Q96-Q101):

96. Frage

A programmer has been hired to create an inventory system for the books in a library. What is the waterfall phase in which waterfall outlining all the functions that need to be written to support the inventory system?

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

Antwort: B

Begründung:

In the Waterfall model of software development, the phase where all functions that need to be written to support the inventory system would be outlined is the Design phase. This phase is critical as it translates the requirements gathered during the analysis phase into a blueprint for constructing the system. It involves two subphases: logical design and physical design. The logical design subphase is where possible solutions are brainstormed and theorized, while the physical design subphase is when those theoretical ideas and schemas are turned into concrete specifications¹².

97. Frage

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

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

Antwort: B

Begründung:

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.

98. Frage

Which characteristic specifically describes an object-oriented language?

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

Antwort: B

Begründung:

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.

References: 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.

99. Frage

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

- A. Writing the code for five new capabilities
- 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. Deciding that new capabilities in the animation application will be written as functions without the need for any new objects

Antwort: C

Begründung:

Comprehensive and Detailed Explanation From Exact Extract:

In Agile, the analysis phase (often part of sprint planning or backlog refinement) involves gathering and refining requirements, typically as user stories or features, based on stakeholder input. According to foundational programming principles and Agile methodologies (e.g., Certipoint Scripting and Programming Foundations Study Guide, Agile Manifesto), the analysis phase focuses on defining what the system should do.

* Agile Analysis Phase:

* Identifies and prioritizes requirements, often incorporating customer feedback.

* Produces user stories or feature lists (e.g., "add new animation effects").

* Option A: "Deciding that new capabilities in the animation application will be written as functions without the need for any new objects." This is incorrect. This decision involves technical design (e.g., choosing procedural vs. object-oriented approaches), which occurs in the design phase, not analysis.

* Option B: "Sending the application to customers for additional evaluation after new features are added." This is incorrect. This occurs during testing or deployment phases (e.g., sprint review or user acceptance testing), not analysis.

* Option C: "Deciding to add five new capabilities to the animation application based on customer feedback." This is correct. In Agile, analysis includes refining the product backlog by adding new features (capabilities) based on customer feedback, such as new

animation effects or tools.

* Option D: "Writing the code for five new capabilities." This is incorrect. Writing code occurs during the implementation phase, not analysis.

Certiport Scripting and Programming Foundations Study Guide (Section on Agile Analysis).

Agile

Manifesto: "Customer Collaboration" (<http://agilemanifesto.org/>).

Cohn, M., User Stories Applied (Chapter 2: Agile Requirements).

100. Frage

Which operation should be used to check if the difference of two values is greater than 1?

- A. Division
- B. Multiplication
- C. Addition
- **D. Subtraction**

Antwort: D

Begründung:

To determine if the difference between two values is greater than 1, the subtraction operation should be used.

By subtracting one value from the other, you obtain the difference. If this difference is greater than 1, it confirms that the two values are separated by more than a single unit. This is a fundamental operation in programming and mathematics for comparing magnitudes and is supported by the logical comparison operator > which checks if the result of the subtraction is greater than 1123.

101. Frage

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