Prep4away WGU Scripting-and-Programming-Foundations Questions PDF Format

WGU D278 Pre-Assessment Scripting And Programming Foundations [UPDATED 2024] Questions And Answers.

Which operator should be used to determine if a number is evenly divisible by 5?
A +
B -
C *
D % - Correct Answer-%

A car drove 200 miles using 10 gallons of fuel.

Which operation should be used to compute the miles per gallon, which is 20?
A Addition
B Subtraction
C Multiplication
D Division - Correct Answer-Division

A variable should hold a person's height in meters.

Which data type should the variable be?
A Integer
B Float
C String
D Boolean - Correct Answer-Float

A variable should hold the names of all past U.S. presidents.

Which data type should the variable be?
A Integer array
B Float array
C String array
D Boolean array - Correct Answer-String Array

A program uses the number of seconds in a minute in various calculations.

How should the item that holds the number of seconds in a minute be declared?
A Constant float userTime
B Variable float userTime
C Constant integer secondsPerMinute
D Variable integer secondsPerMinute - Correct Answer-Constant Integer secondsPerMinute

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WGU Scripting and Programming Foundations Exam Sample Questions (Q27-Q32):

NEW QUESTION # 27

What is the proper way to declare a student's grade point average throughout the term it this item is needed in several places in a program?

- A. variable int gpa
- B. constant float gpa
- C. variable float gpa
- D. constant int gpa

Answer: C

Explanation:
A student's grade point average (GPA) is a numerical representation that typically includes a decimal to account for the precision of the average (e.g., 3.75). Therefore, it should be declared as a floating-point data type to accommodate the decimal part. Since a student's GPA can change over time with the addition of new grades, it should be declared as a variable rather than a constant.

NEW QUESTION # 28

Which operator is helpful in determining if an integer is a multiple of another integer?

- A. +
- B. %
- C. /
- D. ||

Answer: B

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
To determine if one integer is a multiple of another, the modulo operator (%) is used. According to foundational programming principles, the modulo operator returns the remainder of division, and if the remainder is zero, the first integer is a multiple of the second.
* Option A: "/." This is incorrect. The division operator (/) returns the quotient of division, which may include a decimal (e.g., 7 / 2 = 3.5). It does not directly indicate if one number is a multiple of another.
* Option B: "||." This is incorrect. The logical OR operator (||) is used for boolean operations (e.g., in conditional statements) and is unrelated to checking multiples.
* Option C: "+." This is incorrect. The addition operator (+) adds two numbers and is not used to check if one is a multiple of another.
* Option D: "%." This is correct. The modulo operator (%) returns the remainder after division. If a % b
== 0, then a is a multiple of b (e.g., 10 % 5 == 0, so 10 is a multiple of 5).
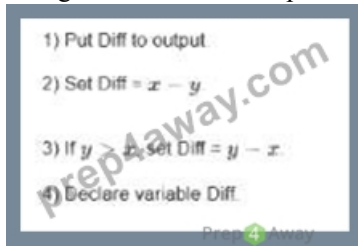Certiport Scripting and Programming Foundations Study Guide (Section on Operators).
C Programming Language Standard (ISO/IEC 9899:2011, Section on Arithmetic Operators).
W3Schools: "Python Operators" (https://www.w3schools.com/python/python_operators.asp).

NEW QUESTION # 29

An algorithm to calculate the positive difference in two given values, x and y, uses the steps shown.

1) Put Diff to output.

2) Set Diff = $x - y$.

3) If y ... set Diff = $y - x$.

4) Declare variable Diff.

What are the two steps of the algorithm that need to be switched to result in success?

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

Answer: C

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.

NEW QUESTION # 30
What is an advantage of using a programming library?

- A. There is improved programmer productivity.
- B. Programs need not run to yield results.
- C. There are more statements in a user's main function
- D. Static program elements are visualized.

Answer: A

Explanation:
Programming libraries are collections of pre-written code that developers can use to optimize tasks and solve common problems efficiently. By using a library, developers don't have to write everything from scratch, which saves time and reduces the potential for errors. Libraries can provide solutions for user authentication, data visualization, animations, networking, and more, allowing developers to focus on the unique aspects of their projects rather than reinventing the wheel123.
References:
* Codingem's "What Is a Library in Programming? A Complete Guide"1.
* CareerFoundry's "What is a Programming Library? A Beginner's Guide"2.
* Robots.net's article on the importance of libraries in programming3.

NEW QUESTION # 31
Which language has extensive support for object-oriented programming?

- A. HTML
- B. Markup
- C. C
- D. C++

Answer: D

Explanation:
C++ is a programming language that provides extensive support for object-oriented programming (OOP).
OOP is a programming paradigm based on the concept of "objects", which can contain data in the form of fields, often known as attributes, and code, in the form of procedures, often known as methods. C++ offers features such as classes, inheritance, polymorphism, encapsulation, and abstraction which are fundamental to OOP. This makes C++ a powerful tool for developing complex software systems that require a modular and scalable approach.

References: The information provided is based on standard programming principles and the foundational knowledge of scripting and programming, which includes understanding the capabilities and applications of various programming languages1.

NEW QUESTION # 32

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