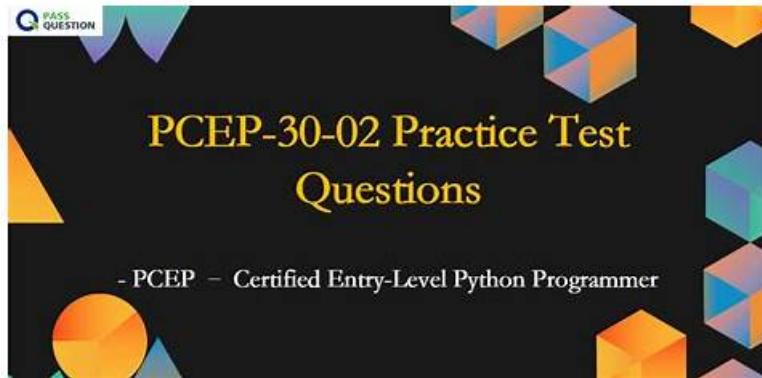


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Python Institute PCEP-30-02 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">Computer Programming Fundamentals: This section of the exam covers fundamental concepts such as interpreters, compilers, syntax, and semantics. It covers Python basics: keywords, instructions, indentation, comments in addition to Booleans, integers, floats, strings, and Variables, and naming conventions. Finally, it covers arithmetic, string, assignment, bitwise, Boolean, relational, and Input output operations.
Topic 2	<ul style="list-style-type: none">Data Collections: In this section, the focus is on list construction, indexing, slicing, methods, and comprehensions; it covers Tuples, Dictionaries, and Strings.
Topic 3	<ul style="list-style-type: none">Loops: while, for, range(), loops control, and nesting of loops.
Topic 4	<ul style="list-style-type: none">Control Flow: This section covers conditional statements such as if, if-else, if-elif, if-elif-else
Topic 5	<ul style="list-style-type: none">parameters, arguments, and scopes. It also covers Recursion, Exception hierarchy, Exception handling, etc.

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Python Institute PCEP - Certified Entry-Level Python Programmer Sample

Questions (Q18-Q23):

NEW QUESTION # 18

Assuming that the following assignment has been successfully executed:

□ Which of the following expressions evaluate to True? (Select two expressions.)

- A. `the_list.index {'1'} == 0`
- B. `1.1 in the_list[1:3]`
- C. `len (the_list [0:2]) <3`
- D. `the_List.index {"1"} in the_list`

Answer: A,C

Explanation:

Explanation

The code snippet that you have sent is assigning a list of four values to a variable called "the_list". The code is as follows:

`the_list = ['1', 1, 1, 1]`

The code creates a list object that contains the values '1', 1, 1, and 1, and assigns it to the variable "the_list".

The list can be accessed by using the variable name or by using the index of the values. The index starts from

0 for the first value and goes up to the length of the list minus one for the last value. The index can also be negative, in which case it counts from the end of the list. For example, `the_list[0]` returns '1', and `the_list[-1]` returns 1.

The expressions that you have given are trying to evaluate some conditions on the list and return a boolean value, either True or False. Some of them are valid, and some of them are invalid and will raise an exception.

An exception is an error that occurs when the code cannot be executed properly. The expressions are as follows:

A). `the_List.index {"1"} in the_list`: This expression is trying to check if the index of the value '1' in the list is also a value in the list. However, this expression is invalid, because it uses curly brackets instead of parentheses to call the index method. The index method is used to return the first occurrence of a value in a list. For example, `the_list.index('1')` returns 0, because '1' is the first value in the list. However, `the_list.index`

`{"1"}` will raise a `SyntaxError` exception and output nothing.

B). `1.1 in the_list[1:3]`: This expression is trying to check if the value 1.1 is present in a sublist of the list.

However, this expression is invalid, because it uses a vertical bar instead of a colon to specify the start and end index of the sublist. The sublist is obtained by using the slicing operation, which uses square brackets and a colon to get a part of the list. For example, `the_list[1:3]` returns [1, 1], which is the sublist of the list from the index 1 to the index 3, excluding the end index. However, `the_list[1:3 |` will raise a `SyntaxError` exception and output nothing.

C). `len (the_list [0:2]) <3`: This expression is trying to check if the length of a sublist of the list is less than 3.

This expression is valid, because it uses the `len` function and the slicing operation correctly. The `len` function is used to return the number of values in a list or a sublist. For example, `len(the_list)` returns 4, because the list has four values. The slicing operation is used to get a part of the list by using square brackets and a colon. For example, `the_list[0:2]` returns ['1', 1], which is the sublist of the list from the index 0 to the index 2, excluding the end index. The expression `len (the_list [0:2]) <3` returns True, because the length of the sublist ['1', 1] is 2, which is less than 3.

D). `the_list. index {'1'} - 0`: This expression is trying to check if the index of the value '1' in the list is equal to 0. This expression is valid, because it uses the `index` method and the equality operator correctly. The `index` method is used to return the first occurrence of a value in a list. For example, `the_list.index('1')` returns 0, because '1' is the first value in the list. The equality operator is used to compare two values and return True if they are equal, or False if they are not. For example, `0 == 0` returns True, and `0 == 1` returns False. The expression `the_list. index {'1'} - 0` returns True, because the index of '1' in the list is 0, and 0 is equal to 0.

Therefore, the correct answers are C. `len (the_list [0:2]) <3` and D. `the_list. index {'1'} - 0`.

NEW QUESTION # 19

What is the expected output of the following code?

□

- A. 0
- B. 1
- C. 2
- D. 3

Answer: A

Explanation:

Explanation

The code snippet that you have sent is using the `count` method to count the number of occurrences of a value in a list. The code is as

follows:

```
my_list = [1, 2, 3, 4, 5] print(my_list.count(1))
```

The code starts with creating a list called "my_list" that contains the numbers 1, 2, 3, 4, and 5. Then, it uses the print function to display the result of calling the count method on the list with the argument 1. The count method is used to return the number of times a value appears in a list. For example, my_list.count(1) returns 1, because 1 appears once in the list.

The expected output of the code is 1, because the code prints the number of occurrences of 1 in the list.

Therefore, the correct answer is D. 1.

NEW QUESTION # 20

What is the expected output of the following code?

- A. 0
- B. 1
- C. 2
- D. 3

Answer: A

Explanation:

The code snippet that you have sent is using the count method to count the number of occurrences of a value in a list. The code is as follows:

```
my_list = [1, 2, 3, 4, 5] print(my_list.count(1))
```

The code starts with creating a list called "my_list" that contains the numbers 1, 2, 3, 4, and 5. Then, it uses the print function to display the result of calling the count method on the list with the argument 1. The count method is used to return the number of times a value appears in a list. For example, my_list.count(1) returns

1, because 1 appears once in the list.

The expected output of the code is 1, because the code prints the number of occurrences of 1 in the list.

Therefore, the correct answer is D. 1.

Reference: Python List count() Method - W3Schools

NEW QUESTION # 21

What happens when the user runs the following code?

- A. The program outputs one asterisk (*) to the screen.
- B. The program outputs three asterisks(***) to the screen.
- C. The program outputs five asterisks (*****) to the screen.
- D. The program enters an infinite loop.

Answer: A

NEW QUESTION # 22

Drag and drop the literals to match their data type names.

Answer:

Explanation:

Explanation

One possible way to drag and drop the literals to match their data type names is:

STRING: "All The King's Men"

BOOLEAN: False

INTEGER: 42

FLOAT: -6.62607015E-34

A literal is a value that is written exactly as it is meant to be interpreted by the Python interpreter. A data type is a category of values that share some common characteristics or operations. Python has four basic data types:

string, boolean, integer, and float.

A string is a sequence of characters enclosed by either single or double quotes. A string can represent text, symbols, or any other information that can be displayed as text. For example, "All The King's Men" is a string literal that represents the title of a novel.

A boolean is a logical value that can be either True or False. A boolean can represent the result of a comparison, a condition, or a logical operation. For example, False is a boolean literal that represents the opposite of True.

An integer is a whole number that can be positive, negative, or zero. An integer can represent a count, an index, or any other quantity that does not require fractions or decimals. For example, 42 is an integer literal that represents the answer to life, the universe, and everything.

A float is a number that can have a fractional part after the decimal point. A float can represent a measurement, a ratio, or any other quantity that requires precision or approximation. For example,

-6.62607015E-34 is a float literal that represents the Planck constant in scientific notation.

You can find more information about the literals and data types in Python in the following references:

[Python Data Types]

[Python Literals]

[Python Basic Syntax]

NEW QUESTION # 23

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