

## PCEP-30-02 Dumps

### PCEP - Certified Entry-Level Python Programmer

<https://www.certleader.com/PCEP-30-02-dumps.html>



**NEW QUESTION 1**

What is the expected result of the following code?

```
rates = (1.2, 1.4, 1.0)
new = rates[3:]
for rate in rates[-2:]:
    new += (rate,)
print(len(new))
```

- A. 5
- B. 2
- C. 1
- D. The code will cause an unhandled

**Answer:** D

**Explanation:**

The code snippet that you have sent is trying to use a list comprehension to create a new list from an existing list. The code is as follows:

```
my_list = [1, 2, 3, 4, 5]
new_list = [x for x in my_list if x > 5]
```

The code starts with creating a list called `my_list` that contains the numbers 1, 2, 3, 4, and 5. Then, it tries to create a new list called `new_list` by using a list comprehension. A list comprehension is a concise way of creating a new list from an existing list by applying some expression or condition to each element.

The syntax of a list comprehension is:

```
new_list = [expression for element in old_list if condition]
```

The expression is the value that will be added to the new list, which can be the same as the element or a modified version of it. The element is the variable that takes each value from the old list. The condition is an optional filter that determines which elements will be included in the new list. For example, the following list comprehension creates a new list that contains the squares of the even numbers from the old list:

```
old_list = [1, 2, 3, 4, 5, 6]
new_list = [x ** 2 for x in old_list if x % 2 == 0]
```

`new_list = [4, 16, 36]` The code that you have sent is trying to create a new list that contains the elements from the old list that are greater than 5. However, there is a problem with this code. The problem is that none of the elements in the old list are greater than 5, so the condition is always false. This means that the new list will be empty, and the expression will never be evaluated. However, the expression is not valid, because it uses the variable `x` without defining it. This will cause a `NameError` exception, which is an error that occurs when a variable name is not found in the current scope. The code does not handle the exception, and therefore it will terminate with an error message.

The expected result of the code is an unhandled exception, because the code tries to use an undefined variable in an expression that is never executed.

Therefore, the correct answer is D. The code will cause an unhandled exception.

Reference: Python - List Comprehension - W3Schools Python - List Comprehension -

GeeksforGeeks Python Exceptions: An Introduction – Real Python

**NEW QUESTION 2**

A set of rules which defines the ways in which words can be coupled in sentences is called:

- A. lexis
- B. syntax
- C. semantics
- D. dictionary

**Answer:** B

**Explanation:**

Syntax is the branch of linguistics that studies the structure and rules of sentences in natural languages. Lexis is the vocabulary of a language. Semantics is the study of meaning in language. A dictionary is a collection of words and their definitions, synonyms, pronunciations, etc.

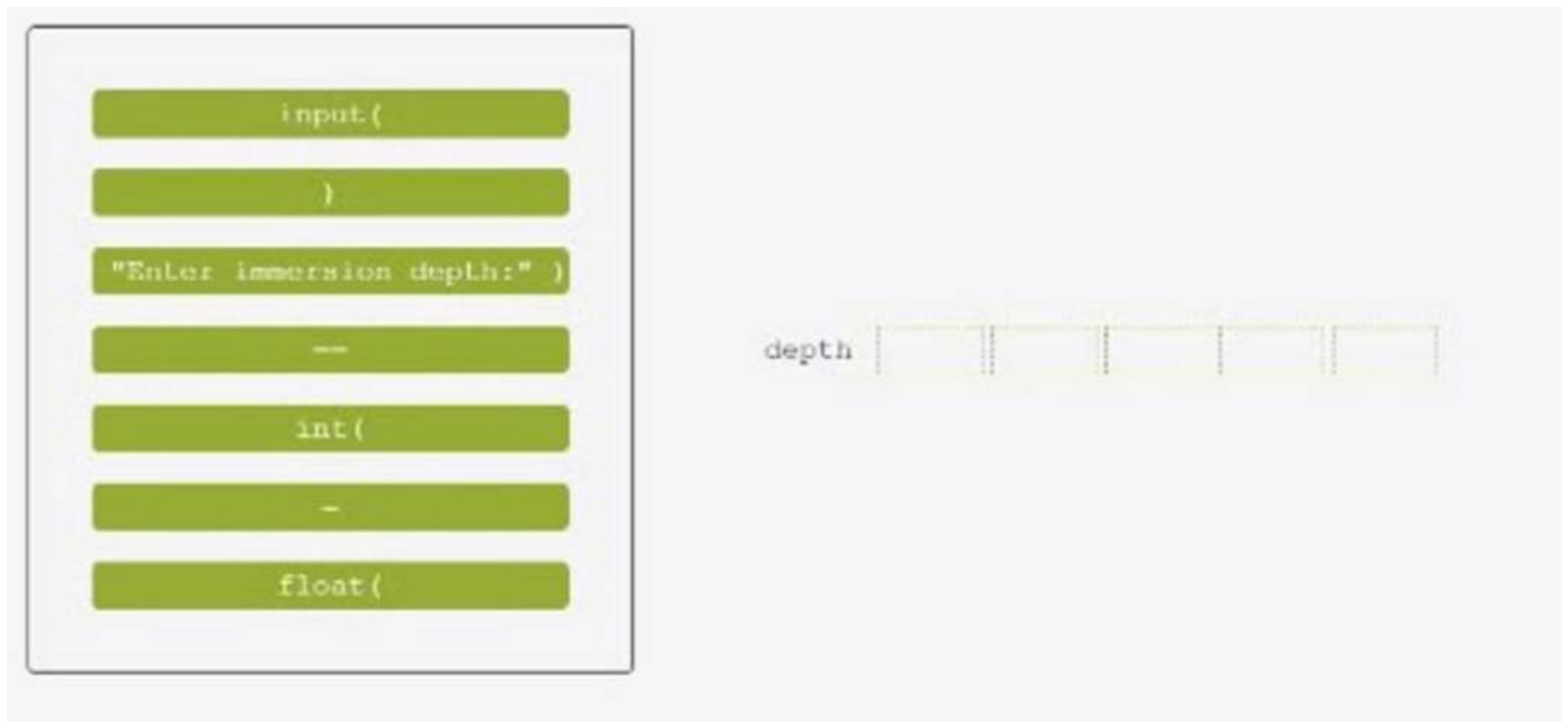
Reference: [Python Institute - Entry-Level Python Programmer Certification]

**NEW QUESTION 3**

DRAG DROP

Insert the code boxes in the correct positions in order to build a line of code which asks the user for an integer value and assigns it to the depth variable.

(Note: some code boxes will not be used.)



- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**



One possible way to insert the code boxes in the correct positions in order to build a line of code which asks the user for an integer value and assigns it to the depth variable is:

```
depth = int(input("Enter the immersion depth: "))
```

This line of code uses the input function to prompt the user for a string value, and then uses the int function to convert that string value into an integer number. The result is then assigned to the variable depth.

You can find more information about the input and int functions in Python in the following references:

? [Python input() Function]

? [Python int() Function]

#### NEW QUESTION 4

Which of the following are the names of Python passing argument styles? (Select two answers.)

- A. keyword
- B. reference
- C. indicatory
- D. positional

**Answer:** AD

**Explanation:**

Keyword arguments are arguments that are specified by using the name of the parameter, followed by an equal sign and the value of the argument. For example, print (sep='-', end='!') is a function call with keyword arguments. Keyword arguments can be used to pass arguments in any order, and to provide default values for some arguments<sup>1</sup>.

Positional arguments are arguments that are passed in the same order as the parameters of the function definition. For example, print ('Hello', 'World') is a function call with positional arguments. Positional arguments must be passed before any keyword arguments, and they must match the number and type of the parameters of the function<sup>2</sup>.

References: 1: 5 Types of Arguments in Python Function Definitions | Built In 2: python - What??s the pythonic way to pass arguments between functions ??

**NEW QUESTION 5**

What is the expected output of the following code?

```
def traverse(stop):  
    if stop == 0:  
        return 0  
    else:  
        return stop * traverse(stop - 1)  
  
print(traverse(2))
```

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

**Answer:** D

**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 6**

What is the expected result of the following code?

```
def velocity(x=10):  
    return speed + x  
  
speed = 10  
new_speed = velocity()  
new_speed = velocity(new_speed)  
print(new_speed)
```

- A. The code is erroneous and cannot be run.
- B. 20
- C. 10
- D. 30

**Answer:** A

**Explanation:**

The code snippet that you have sent is trying to use the global keyword to access and modify a global variable inside a function. The code is as follows:

```
speed = 10 def velocity(): global speed speed = speed + 10 return speed print(velocity())
```

The code starts with creating a global variable called `speed` and assigning it the value 10. A global variable is a variable that is defined outside any function and can be accessed by any part of the code. Then, the code defines a function called `velocity` that takes no parameters and returns the value of `speed` after adding 10 to it. Inside the function, the code uses the `global` keyword to declare that it wants to use the global variable `speed`, not a local one. A local variable is a variable that is defined inside a function and can only be accessed by that function. The `global` keyword allows the function to modify the global variable, not just read it. Then, the code adds 10 to the value of `speed` and returns it. Finally, the code calls the function `velocity` and prints the result.

However, the code has a problem. The problem is that the code uses the `global` keyword inside the function, but not outside. The `global` keyword is only needed when you want to modify a global variable inside a function, not when you want to create or access it outside a function. If you use the `global` keyword outside a function, you will get a `SyntaxError` exception, which is an error that occurs when the code does not follow the rules of the Python language. The code does not handle the exception, and therefore it will terminate with an error message.

The expected result of the code is an unhandled exception, because the code uses the `global` keyword incorrectly. Therefore, the correct answer is A. The code is erroneous and cannot be run.

Reference: Python Global Keyword - W3Schools  
Python Exceptions: An Introduction – Real Python

The code is erroneous because it is trying to call the `velocity` function without passing any parameter, which will raise a `TypeError` exception. The `velocity` function requires one parameter `x`, which is used to calculate the return value of `speed` multiplied by `x`. If no parameter is passed, the function will not know what value to use for `x`.

The code is also erroneous because it is trying to use the `new_speed` variable before it is defined. The `new_speed` variable is assigned the value of 20 after the first function call, but it is used as a parameter for the second function call, which will raise a `NameError` exception. The variable should be defined before it is used in any expression or function call.

Therefore, the code will not run and will not produce any output. The correct way to write the code would be:

```
# Define the speed variable
speed = 10
# Define the velocity function
def velocity(x):
    return speed * x
# Define the new_speed variable
new_speed = 20
# Call the velocity function with new_speed as a parameter
print(velocity(new_speed))
```

Copy

This code will print 200, which is the result of 10 multiplied by 20. References:

[Python Programmer Certification (PCPP) – Level 1] [Python Programmer Certification (PCPP) – Level 2] [Python Programmer Certification (PCPP) – Level 3]

[Python: Built-in Exceptions]

[Python: Defining Functions]

[Python: More on Variables and Printing]

## NEW QUESTION 7

What is the expected output of the following code?

```
def runner(brand, model="", year=2021, convertible=False):
    return (brand, str(year), str(convertible))

print(runner("Fermi")[2][2])
```

- A. 1
- B. The code raises an unhandled exception.
- C. False
- D. ('Fermi ', '2021', 'False')

**Answer: D**

### Explanation:

The code snippet that you have sent is defining and calling a function in Python. The code is as follows:

```
def runner(brand, model, year):
    return (brand, model, year)
print(runner("Fermi"))
```

The code starts with defining a function called `runner` with three parameters: `brand`, `model`, and `year`.

The function returns a tuple with the values of the parameters. A tuple is a data type in Python that can store multiple values in an ordered and immutable way. A tuple is created by using parentheses and separating the values with commas. For example, `(1, 2, 3)` is a tuple with three values. Then, the code calls the function `runner` with the value `"Fermi"` for the `brand` parameter and prints the result. However, the function expects three arguments, but only one is given. This will cause a `TypeError` exception, which is an error that occurs when a function or operation receives an argument that has the wrong type or number. The code does not handle the exception, and therefore it will terminate with an error message.

However, if the code had handled the exception, or if the function had used default values for the missing parameters, the expected output of the code would be `('Fermi ', '2021', 'False')`. This is because the function returns a tuple with the values of the parameters, and the `print` function displays the tuple to the screen. Therefore, the correct answer is D. `('Fermi ', '2021', 'False')`.

Reference: Python Functions - W3Schools  
Python Tuples - W3Schools  
Python Exceptions:

An Introduction – Real Python

## NEW QUESTION 8

### DRAG DROP

Arrange the code boxes in the correct positions in order to obtain a loop which executes its body with the `level` variable going through values 5, 1, and 1 (in the same order).



0, range ( -2 level in for ) 5,

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

0, range ( -2 level in for ) 5,

for level in range ( 5, 0, -2 )

NEW QUESTION 9

DRAG DROP

Insert the code boxes in the correct positions in order to build a line of code which asks the user for a float value and assigns it to the mass variable.  
(Note: some code boxes will not be used.)

input

)

int

print

;

float

(

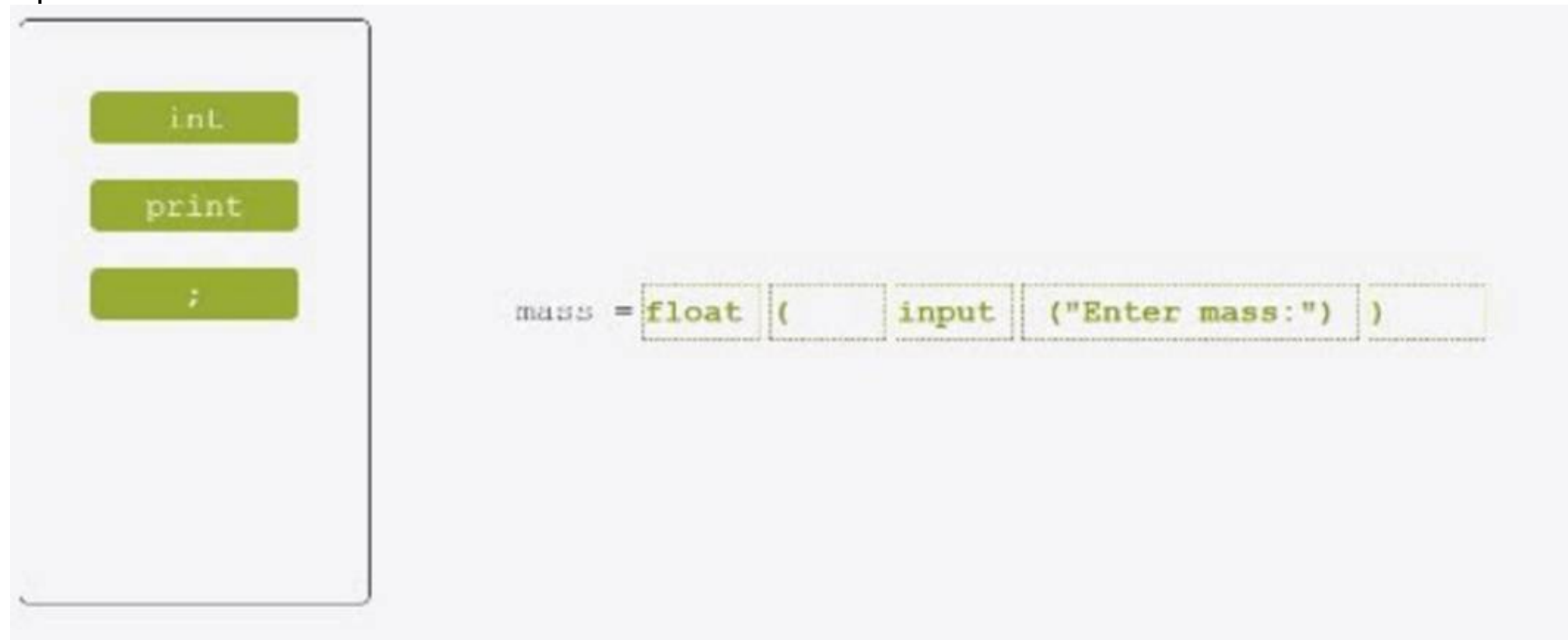
("Enter mass:")

mass =

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**



One possible way to insert the code boxes in the correct positions in order to build a line of code that asks the user for a float value and assigns it to the mass variable is:

```
mass = float(input("Enter the mass: "))
```

This line of code uses the input function to prompt the user for a string value, and then uses the float function to convert that string value into a floating-point number. The result is then assigned to the variable mass.

You can find more information about the input and float functions in Python in the following references:

? [Python input() Function]

? [Python float() Function]

#### NEW QUESTION 10

Assuming that the following assignment has been successfully executed: `My_list = [1, 1, 2, 3]`

Select the expressions which will not raise any exception. (Select two expressions.)

- A. `my_list[-10]`
- B. `my_list|my_Li1st | 3| l`
- C. `my list [6]`
- D. `my_List- [0:1]`

**Answer:** BD

**Explanation:**

The code snippet that you have sent is assigning a list of four numbers to a variable called `my_list`. The code is as follows:

```
my_list = [1, 1, 2, 3]
```

The code creates a list object that contains the elements 1, 1, 2, and 3, and assigns it to the variable `my_list`. The list can be accessed by using the variable name or by using the index of the elements. The index starts from 0 for the first element and goes up to the length of the list minus one for the last element. The index can also be negative, in which case it counts from the end of the list. For example, `my_list[0]` returns 1, and `my_list[-1]` returns 3.

The code also allows some operations on the list, such as slicing, concatenation, repetition, and membership. Slicing is used to get a sublist of the original list by specifying the start and end index. For example, `my_list[1:3]` returns [1, 2]. Concatenation is used to join two lists together by using the `+` operator. For example, `my_list + [4, 5]` returns [1, 1, 2, 3, 4, 5]. Repetition is used to create a new list by repeating the original list a number of times by using the `*` operator. For example, `my_list * 2` returns [1, 1, 2, 3, 1, 1, 2, 3]. Membership is used to check if an element is present in the list by using the `in` operator. For example, `2 in my_list` returns True, and `4 in my_list` returns False.

The expressions that you have given are trying to access or manipulate the list in different ways. 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. `my_list[-10]`: This expression is trying to access the element at the index -10 of the list. However, the list only has four elements, so the index -10 is out of range. This will raise an `IndexError` exception and output nothing.

\* B. `my_list|my_Li1st | 3| l`: This expression is trying to perform a bitwise OR operation on the list and some other operands. The bitwise OR operation is used to compare the binary representation of two numbers and return a new number that has a 1 in each bit position where either number has a 1. For example, `3 | 1` returns 3, because 3 in binary is 11 and 1 in binary is 01, and `11 | 01` is 11. However, the bitwise OR operation cannot be applied to a list, because a list is not a number. This will raise a `TypeError` exception and output nothing.

\* C. `my list [6]`: This expression is trying to access the element at the index 6 of the list. However, the list only has four elements, so the index 6 is out of range. This will raise an `IndexError` exception and output nothing.

\* D. `my_List- [0:1]`: This expression is trying to perform a subtraction operation on the list and a sublist. The subtraction operation is used to subtract one number from another and return the difference. For example, `3 - 1` returns 2. However, the subtraction operation cannot be applied to a list, because a list is not a number. This will raise a `TypeError` exception and output nothing.

Only two expressions will not raise any exception. They are:

\* B. `my_list|my_Li1st | 3| l`: This expression is not a valid Python code, but it is not an expression that tries to access or manipulate the list. It is just a string of characters that has no meaning. Therefore, it will not raise any exception, but it will also not output anything.

\* D. `my_List- [0:1]`: This expression is a valid Python code that uses the slicing operation to get a sublist of the list. The slicing operation does not raise any exception, even if the start or end index is out of range. It will just return an empty list or the closest possible sublist.

For example, `my_list[0:10]` returns [1, 1, 2, 3], and `my_list[10:20]` returns []. The expression `my_List- [0:1]` returns the sublist of the list from the index 0 to the index 1, excluding the end index. Therefore, it returns [1]. This expression will not raise any exception, and it will output [1].

Therefore, the correct answers are B. `my_list|my_Li1st | 3| l` and D. `my_List- [0:1]`. Reference: [Python Institute - Entry-Level Python Programmer Certification]

**NEW QUESTION 10**

DRAG DROP

Arrange the binary numeric operators in the order which reflects their priorities, where the top-most position has the highest priority and the bottom-most position has the lowest priority.

*
-
**


- A. Mastered  
B. Not Mastered

**Answer:** A

**Explanation:**

**
*
-

The correct order of the binary numeric operators in Python according to their priorities is:

- ? Exponentiation (\*\*)  
? Multiplication (\*) and Division (/, //, %)  
? Addition (+) and Subtraction (-)

This order follows the standard mathematical convention of operator precedence, which can be remembered by the acronym PEMDAS (Parentheses, Exponents, Multiplication/Division, Addition/Subtraction). Operators with higher precedence are evaluated before those with lower precedence, but operators with the same precedence are evaluated from left to right. Parentheses can be used to change the order of evaluation by grouping expressions.

For example, in the expression `2 + 3 * 4 ** 2`, the exponentiation operator (`**`) has the highest priority, so it is evaluated first, resulting in `2 + 3 * 16`. Then, the multiplication operator (`*`) has the next highest priority, so it is evaluated next, resulting in `2 + 48`. Finally, the addition operator (`+`) has the lowest priority, so it is evaluated last, resulting in 50.

You can find more information about the operator precedence in Python in the following references:

- ? 6. Expressions — Python 3.11.5 documentation  
? Precedence and Associativity of Operators in Python - Programiz  
? Python Operator Priority or Precedence Examples Tutorial

**NEW QUESTION 13**

What is true about tuples? (Select two answers.)

- A. Tuples are immutable, which means that their contents cannot be changed during their lifetime.  
B. The `len { }` function cannot be applied to tuples.  
C. An empty tuple is written as `{ }`.  
D. Tuples can be indexed and sliced like lists.

**Answer:** AD

**Explanation:**

Tuples are one of the built-in data types in Python that are used to store collections of data. Tuples have some characteristics that distinguish them from other data types, such as lists, sets, and dictionaries. Some of these characteristics are:

? Tuples are immutable, which means that their contents cannot be changed during their lifetime. Once a tuple is created, it cannot be modified, added, or removed. This makes tuples more stable and reliable than mutable data types. However, this also means that tuples are less flexible and dynamic than mutable data types. For example, if you want to change an element in a tuple, you have to create a new tuple with the modified element and assign it to the same variable<sup>12</sup>

? Tuples are ordered, which means that the items in a tuple have a defined order and can be accessed by using their index. The index of a tuple starts from 0 for the first item and goes up to the length of the tuple minus one for the last item. The index can also be negative, in which case it counts from the end of the tuple. For example, if you have a tuple `t = ("a", "b", "c")`, then `t[0]` returns "a", and `t[- 1]` returns "c"<sup>12</sup>

? Tuples can be indexed and sliced like lists, which means that you can get a single item or a sublist of a tuple by using square brackets and specifying the start and end index. For example, if you have a tuple `t = ("a", "b", "c", "d", "e")`, then `t[2]` returns "c", and `t[1:4]` returns ("b", "c", "d"). Slicing does not raise any exception, even if the start or end index is out of range. It will just return an empty tuple or the closest possible sublist<sup>12</sup>



? Tuples can contain any data type, such as strings, numbers, booleans, lists, sets, dictionaries, or even other tuples. Tuples can also have duplicate values, which means that the same item can appear more than once in a tuple. For example, you can have a tuple t = (1, 2, 3, 1, 2), which contains two 1s and two 2s12

? Tuples are written with round brackets, which means that you have to enclose the items in a tuple with parentheses. For example, you can create a tuple t = ("a", "b", "c") by using round brackets. However, you can also create a tuple without using round brackets, by just separating the items with commas. For example, you can create the same tuple t = "a", "b", "c" by using commas. This is called tuple packing, and it allows you to assign multiple values to a single variable12

? The len() function can be applied to tuples, which means that you can get the number of items in a tuple by using the len() function. For example, if you have a tuple t = ("a", "b", "c"), then len(t) returns 312

? An empty tuple is written as (), which means that you have to use an empty pair of parentheses to create a tuple with no items. For example, you can create an empty tuple t = () by using empty parentheses. However, if you want to create a tuple with only one item, you have to add a comma after the item, otherwise Python will not recognize it as a tuple. For example, you can create a tuple with one item t = ("a",) by using a comma12

Therefore, the correct answers are A. Tuples are immutable, which means that their contents cannot be changed during their lifetime. and D. Tuples can be indexed and sliced like lists.

Reference: Python Tuples - W3SchoolsTuples in Python - GeeksforGeeks

**NEW QUESTION 17**

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