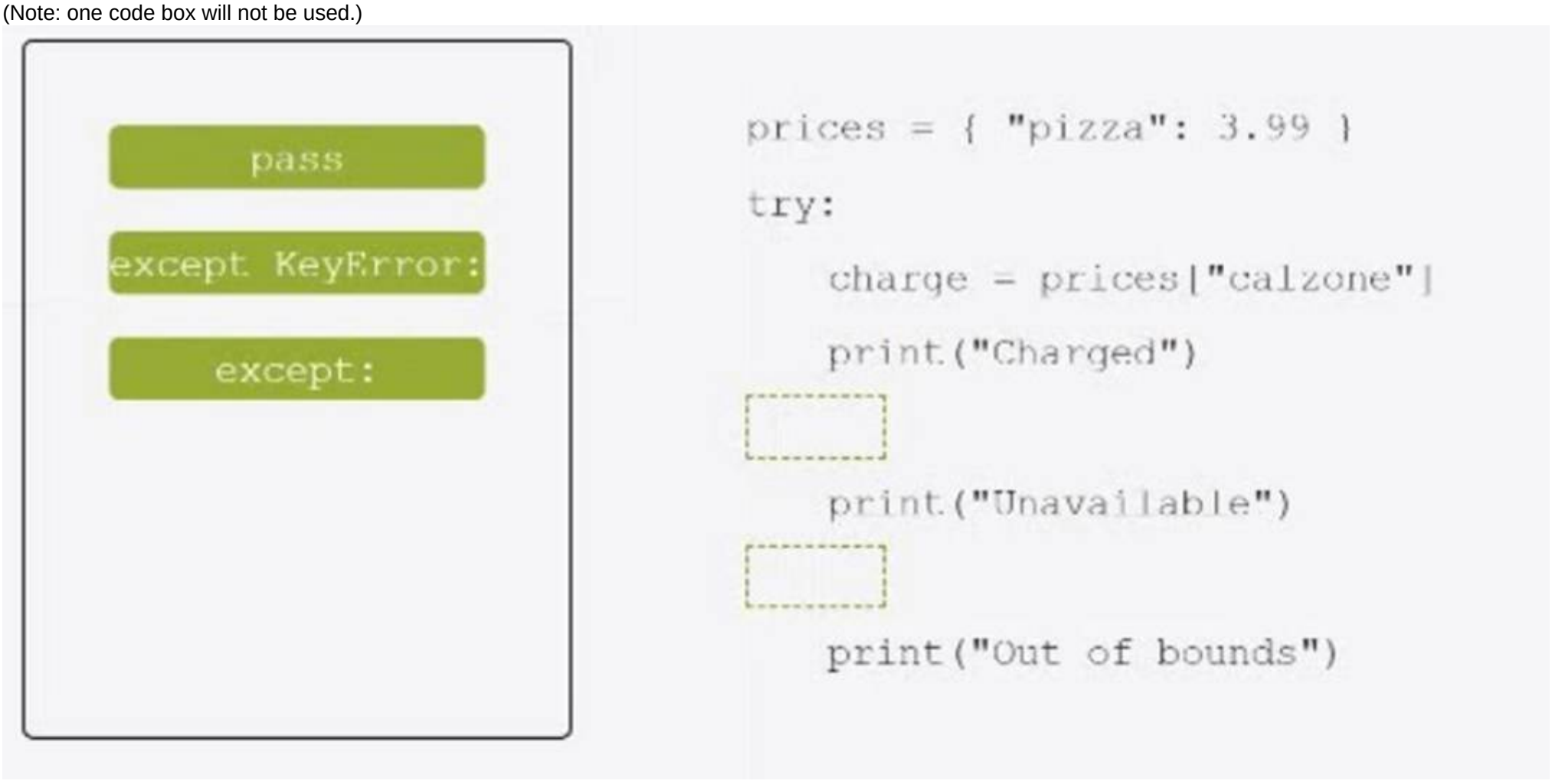
Python-Institute

Exam Questions PCEP-30-02

PCEP - Certified Entry-Level Python Programmer

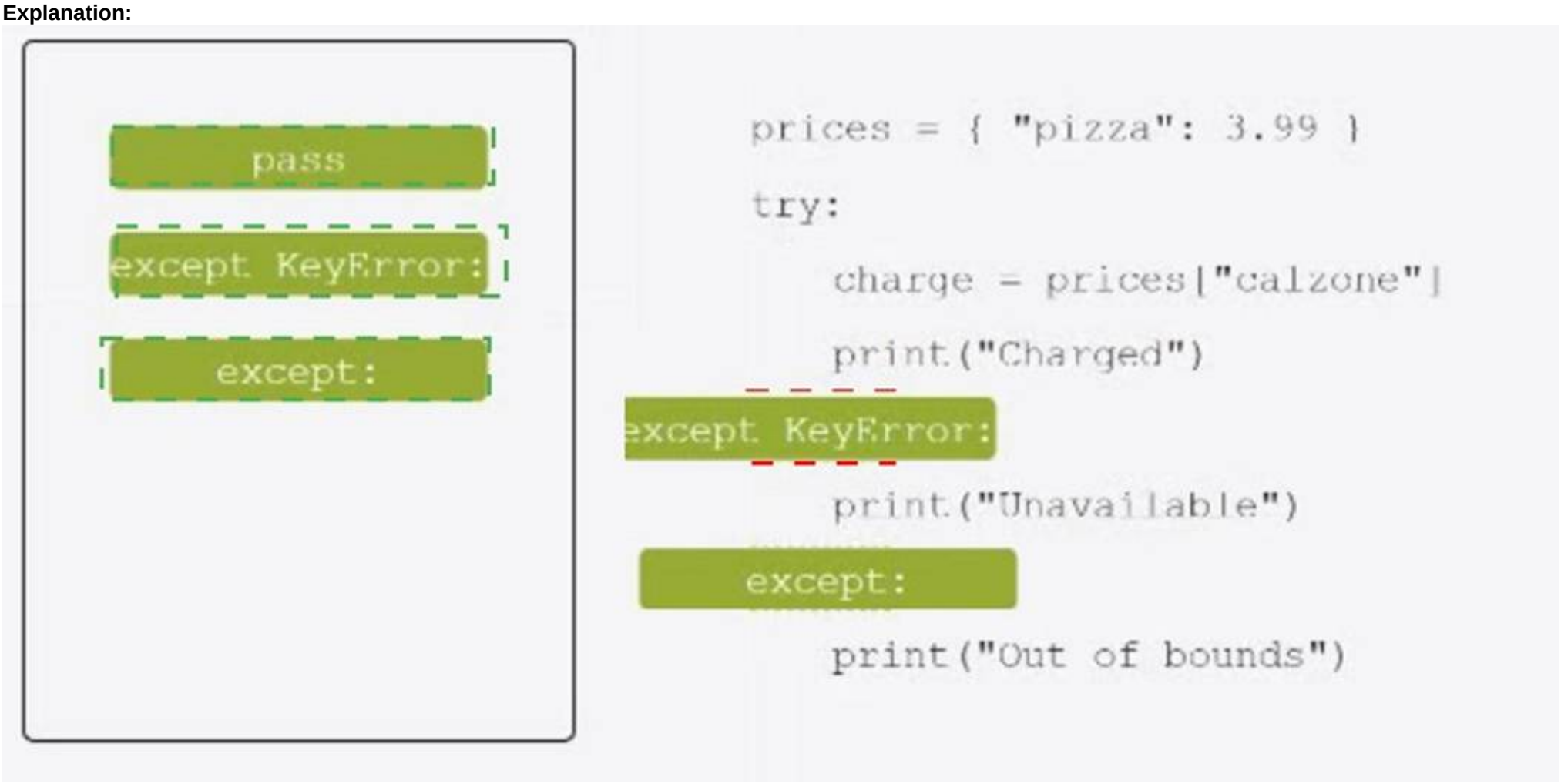
NEW QUESTION 1
DRAG DROP
Drag and drop the code boxes in order to build a program which prints Unavailable to the screen.
(Note: one code box will not be used.)



A. Mastered
B. Not Mastered

Answer: A

Explanation:



NEW QUESTION 2
What happens when the user runs the following code?

```
lolal = 0
for i in range(4):
    if 2 * i < 4:
        total += 1
else:
    total += 1
print(total)
```

A. The code outputs 3.
B. The code outputs 2.
C. The code enters an infinite loop.
D. The code outputs 1.

Answer: B

Explanation:
The code snippet that you have sent is calculating the value of a variable ??total?? based on the values in the range of 0 to 3. The code is as follows:
total = 0 for i in range(0, 3): if i % 2 == 0: total = total + 1 else: total = total + 2 print(total) The code starts with assigning the value 0 to the variable ??total??. Then, it enters a for loop that iterates over the values 0, 1, and 2 (the range function excludes the upper bound). Inside the loop, the code checks if the current value of ??i?? is even or odd using the modulo operator (%). If ??i?? is even, the code adds 1 to the value of ??total??. If ??i?? is odd, the code adds 2 to the value of ??total??. The loop ends when ??i?? reaches 3, and the code prints the final
value of ??total?? to the screen.
The code outputs 2 to the screen, because the value of ??total?? changes as follows:
? When i = 0, total = 0 + 1 = 1
? When i = 1, total = 1 + 2 = 3
? When i = 2, total = 3 + 1 = 4
? When i = 3, the loop ends and total = 4 is printed Therefore, the correct answer is B. The code outputs 2.
Reference: [Python Institute - Entry-Level Python Programmer Certification]

NEW QUESTION 3
What is the expected output of the following code?

```
equals = 0
for i in range(2):
    for j in range(2):
        if i == j:
            equals += 1
else:
    equals += 1
print(equals)
```

A. The code outputs nothing.
B. 3
C. 1
D. 4

Answer: C

Explanation:
The code snippet that you have sent is checking if two numbers are equal and printing the result. The code is as follows:
num1 = 1 num2 = 2 if num1 == num2: print(4) else: print(1)
The code starts with assigning the values 1 and 2 to the variables ??num1?? and ??num2?? respectively. Then, it enters an if statement that compares the values of ??num1?? and ??num2?? using the equality operator (==). If the values are equal, the code prints 4 to the screen. If the values are not equal, the code prints 1 to the screen.
The expected output of the code is 1, because the values of ??num1?? and ??num2?? are not equal. Therefore, the correct answer is C. 1.
Reference: [Python Institute - Entry-Level Python Programmer Certification]

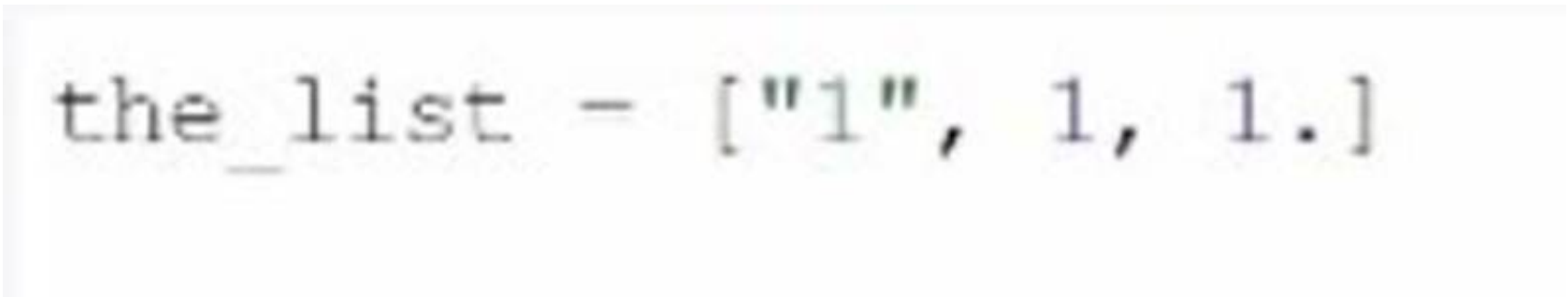
NEW QUESTION 4
Which of the following are the names of Python passing argument styles? (Select two answers.)

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 arguments1.
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 function2.
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
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"} in the_list
B. 1.1 in the_list |1:3 |
C. len (the list [0:2]} <3
D. the_lis
E. index {'1'} -- 0

Answer: CD

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. Reference: Python List Methods - W3Schools5. Data Structures — Python 3.11.5 documentationList methods in Python - GeeksforGeeks

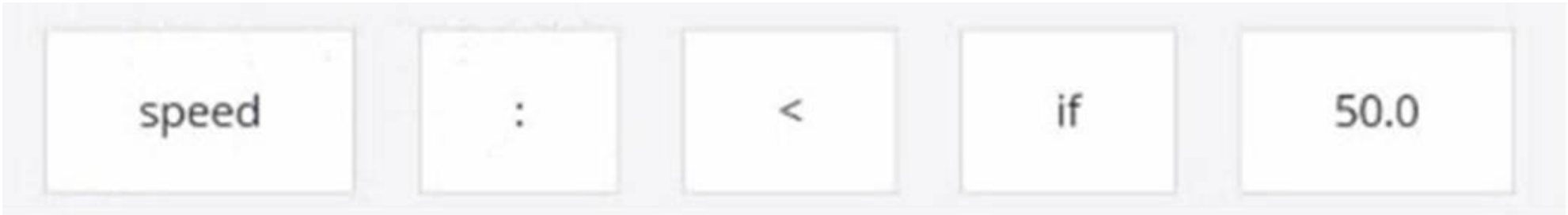
NEW QUESTION 6
Python Is an example of which programming language category?

A. interpreted
B. assembly
C. compiled
D. machine

Answer: A

Explanation:
Python is an interpreted programming language, which means that the source code is translated into executable code by an interpreter at runtime, rather than by a compiler beforehand. Interpreted languages are more flexible and portable than compiled languages, but they are also slower and less efficient. Assembly and machine languages are low-level languages that are directly executed by the hardware, while compiled languages are high-level languages that are translated into machine code by a compiler before execution.
Reference: [Python Institute - Entry-Level Python Programmer Certification]

NEW QUESTION 7
DRAG DROP
Arrange the code boxes in the correct positions to form a conditional instruction which guarantees that a certain statement is executed when the speed variable is less than 50.0.

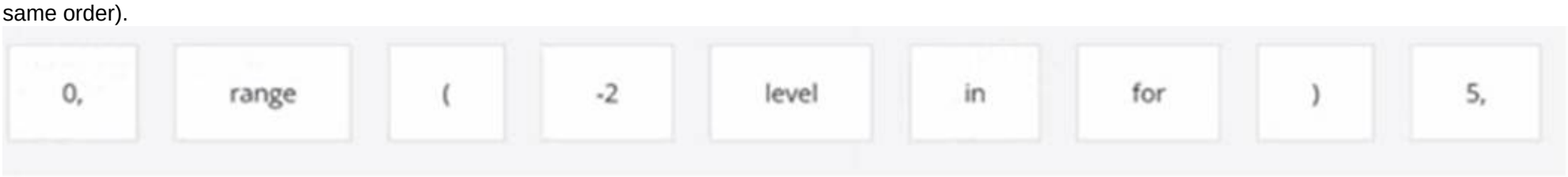


A. Mastered
B. Not Mastered

Answer: A

Explanation:
One possible way to arrange the code boxes in the correct positions to form a conditional instruction which guarantees that a certain statement is executed when the speed variable is less than 50.0 is: if speed < 50.0: print("The speed is low.")
This code uses the if keyword to create a conditional statement that checks the value of the variable speed. If the value is less than 50.0, then the code will print ??The speed is low.?? to the screen. The print function is used to display the output. The code is indented to show the block of code that belongs to the if condition.
You can find more information about the if statement and the print function in Python in the following references:
? Python If ?? Else
? Python Print Function

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).

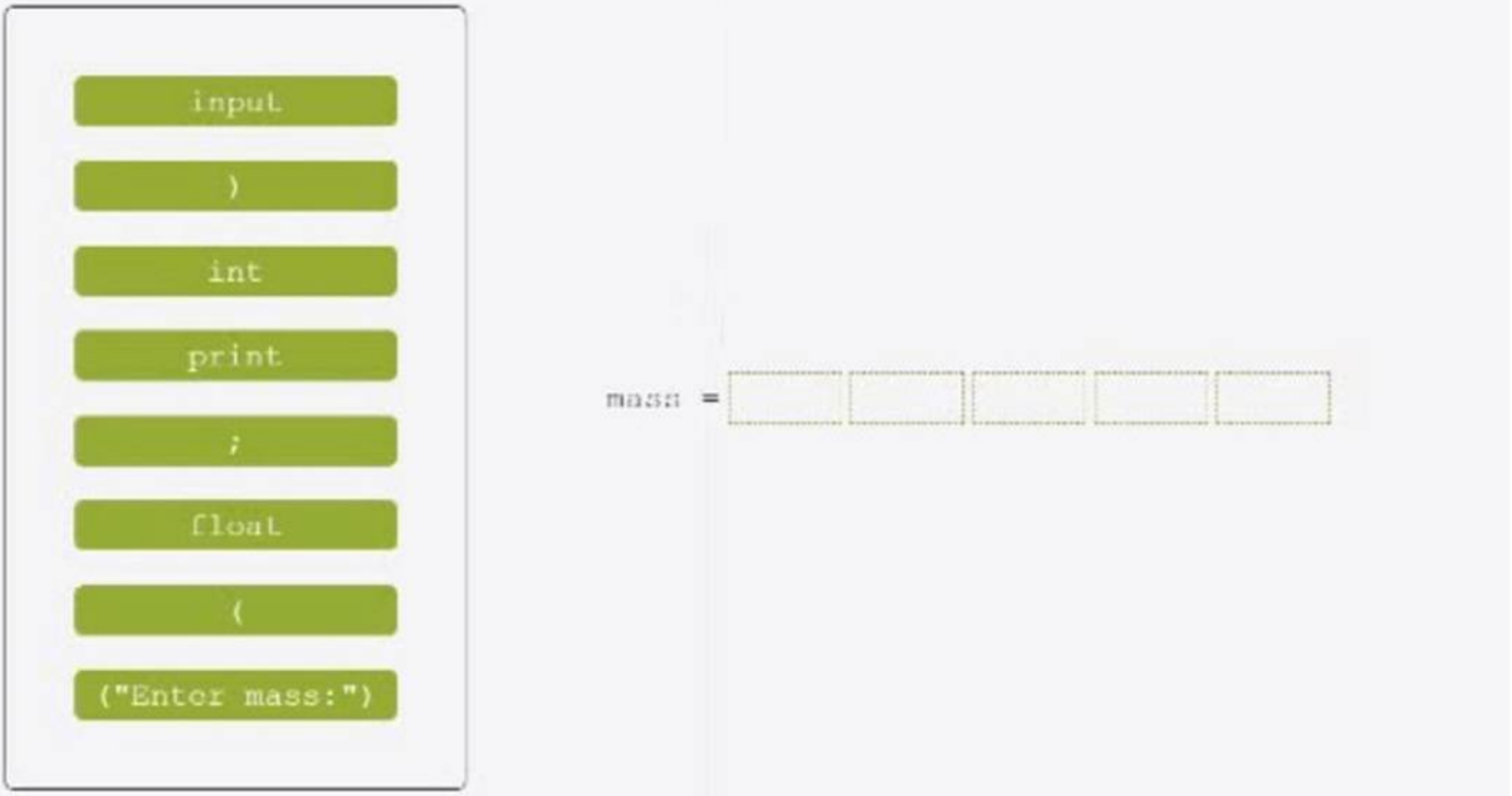


A. Mastered
B. Not Mastered

Answer: A

Explanation:

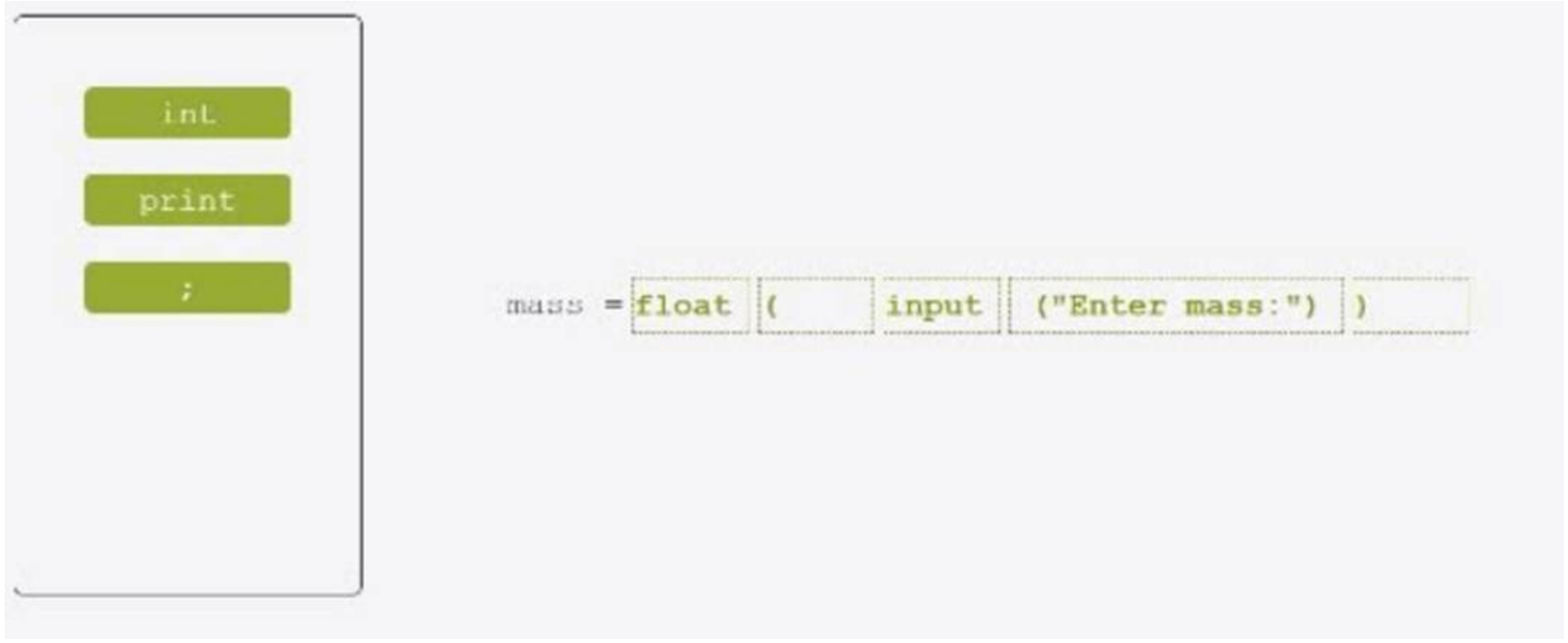
NEW QUESTION 9
DRAG DROP
Insert the code boxes in the correct positions in order to build a line of code which asks the user for a float value and assigns it to the mass variable.
(Note: some code boxes will not be used.)



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
Which of the following functions can be invoked with two arguments?
A)

```
def mu(None):
    pass
```

B)

```
def iota(level, size = 0):
    pass
```

C)

```
def kappa(level):
    pass
```

D)

```
def lambda():
    pass
```

A. Option A
B. Option B
C. Option C
D. Option D

Answer: B

Explanation:
The code snippets that you have sent are defining four different functions in Python. A function is a block of code that performs a specific task and can be reused in the program. A function can take zero or more arguments, which are values that are passed to the function when it is called. A function can also return a value or None, which is the default return value in Python.
To define a function in Python, you use the def keyword, followed by the name of the function and parentheses. Inside the parentheses, you can specify the names of the parameters that the function will accept. After the parentheses, you use a colon and then indent the code block that contains the statements of the function. For example:
def function_name(parameter1, parameter2): # statements of the function return value To call a function in Python, you use the name of the function followed by parentheses.
Inside the parentheses, you can pass the values for the arguments that the function expects. The number and order of the arguments must match the number and order of the parameters in the function definition, unless you use keyword arguments or default values. For example:
function_name(argument1, argument2)
The code snippets that you have sent are as follows:
A) def my_function(): print(??Hello??)
B) def my_function(a, b): return a + b
C) def my_function(a, b, c): return a * b * c
D) def my_function(a, b=0): return a - b
The question is asking which of these functions can be invoked with two arguments. This means that the function must have two parameters in its definition, or one parameter with a default value and one without. The default value is a value that is assigned to a parameter if no argument is given for it when the function is called. For example, in option D, the parameter b has a default value of 0, so the function can be called with one or two arguments.
The only option that meets this criterion is option B. The function in option B has two parameters, a and b, and returns the sum of them. This function can be invoked with two arguments, such as my_function(2, 3), which will return 5.
The other options cannot be invoked with two arguments. Option A has no parameters, so it can only be called with no arguments, such as my_function(), which will print ??Hello??. Option C has three parameters, a, b, and c, and returns the product of them. This function can only be called with three arguments, such as my_function(2, 3, 4), which will return 24. Option D has one parameter with a default value, b, and one without, a, and returns the difference of them. This function can be called with one or two arguments, such as my_function(2) or my_function(2, 3), which will return 2 or -1, respectively.
Therefore, the correct answer is B. Option B.

NEW QUESTION 10
What is the expected result of running the following code?

```
def do_the_mess(parameter):
    parameter[0] += variable
    return parameter[0]


the_list = [x for x in range(2, 3)]
variable = -1
do_the_mess(the_list)
print(the_list[0])
```

A. The code prints 1 .
B. The code prints 2
C. The code raises an unhandled exception.
D. The code prints 0

Answer: C

Explanation:
The code snippet that you have sent is trying to use the index method to find the position of a value in a list. The code is as follows:
the_list = [1, 2, 3, 4, 5] print(the_list.index(6))
The code starts with creating a list called ??the_list?? that contains the numbers 1, 2, 3, 4, and 5. Then, it tries to print the result of calling the index method on the list with the argument 6. 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 code has a problem. The problem is that the value 6 is not present in the list, so the index method cannot find it. This will cause a ValueError exception, which is an error that occurs when a function or operation receives an argument that has the right type but an inappropriate value. 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 find a value that does not exist in the list. Therefore, the correct answer is C. The code raises an unhandled exception.
Reference: Python List index() Method - W3SchoolsPython Exceptions: An Introduction –
Real Python

NEW QUESTION 15
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