98-381 Q&As

Introduction to Programming Using Python

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QUESTION 1

HOTSPOT

During school holidays, you volunteer to explain some basic programming concepts to younger siblings. You want to introduce the concept of data types in Python. You create the following three code segments:

```
# Code segment 1
x1 = "20"
y1 = 3
a = x1 * y1

# Code segment 2
x2 = 6
y2 = 4
b = x2 / y2

# Code segment 3
x3 = 2.5
y3 = 1
c = x3 / y3
```

You need to evaluate the code segments.

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

	Yes	No
After executing code segment 1, the data type of variable `a` is `str`.	○	○
After executing code segment 2, the data type of variable `b` is `float`.	○	○
After executing code segment 3, the data type of variable `c` is `int`.	○	○

Correct Answer:

Answer Area

	Yes	No
After executing code segment 1, the data type of variable `a` is `str`.	○	●
After executing code segment 2, the data type of variable `b` is `float`.	●	○
After executing code segment 3, the data type of variable `c` is `int`.	○	●

QUESTION 2

HOTSPOT

The ABC company needs a way to find the count of particular letters in their publications to ensure that there is a good balance. It seems that there have been complaints about overuse of the letter e. You need to create a function to meet the

requirements.

How should you complete this code? To answer, select the appropriate code segments in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

```
#Function accepts list of words from a file,
#and letter to search for.
#Returns count of a particular letter in that list.


def count_letter(letter, word_list):
    count=0
    for [word_list in word: | word in word_list: | word == word_list: | word is word_list:]

        if [word is letter: | letter is word: | word in letter: | letter in word:]

            count += 1
        return count

word_list =[]


#word_list is populated a from file. Code not shown.

letter = input("which letter would you like to count")

letter_count= count_letter(letter, word_list)
print("There are: " , letter_count, " instances of " + letter)
```

Correct Answer:

Answer Area

```
#Function accepts list of words from a file,
#and letter to search for.
#Returns count of a particular letter in that list.


def count_letter(letter, word_list):
    count=0
    for [word_list in word: | word in word_list: | word == word_list: | word is word_list:]

        if [word is letter: | letter is word: | word in letter: | letter in word:]

            count += 1
        return count

word_list =[]


#word_list is populated a from file. Code not shown.

letter = input("which letter would you like to count")

letter_count= count_letter(letter, word_list)
print("There are: " , letter_count, " instances of " + letter)
```

QUESTION 3

You are writing an application that uses the sqrt function. The program must reference the function using the name squareRoot.

You need to import the function.

Which code segment should you use?

A. import math.sqrt as squareRoot

B. import sqrt from math as squareRoot

C. from math import sqrt as squareRoot

D. from math.sqrt as squareRoot

Correct Answer: C

References: https://infohost.nmt.edu/tcc/help/pubs/python/web/import-statement.html

QUESTION 4

You develop a Python application for your company.

You need to accept input from the user and print that information to the user screen.

You have started with the following code. Line numbers are included for reference only.

```
01 print("What is your name?")
02
03 print(name)
```

Which code should you write at line 02?

A. name = input

B. input("name")

C. input(name)

D. name = input()

Correct Answer: B

QUESTION 5

This question requires that you evaluate the underlined text to determine if it is correct.

You write the following code:

```
import sys
try:
    file_in = open("in.txt", 'r')
    file_out = open("out.txt", 'w+')
except IOError:
    print('cannot open', file_name)
else:
    i = 1
    for line in file_in:
        print(line.rstrip())
        file_out.write("line " + str(i) + ": " + line)
        i = i + 1
    file_in.close()
    file_out.close()
```

The out.txt file does not exist. You run the code. The code will execute without error.

Review the underlined text. If it makes the statement correct, select "No change is needed". If the statement is incorrect, select the answer choice that makes the statement correct.

A. No change is needed

B. The code runs, but generates a logic error

C. The code will generate a runtime error

D. The code will generate a syntax error

Correct Answer: A

References: https://docs.python.org/2/library/exceptions.html