

98-381^{Q&As}

Introduction to Programming Using Python

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QUESTION 1

You are creating a function that reads a data file and prints each line of the file. You write the following code. Line numbers are included for reference only.

```
01 import os
02 def read_file(file):
03     line = None
04     if os.path.isfile(file):
05         data = open(file, 'r')
06         while line != '':
07             line = data.readline()
08             print(line)
```

The code attempts to read the file even if the file does not exist.

You need to correct the code.

Which three lines have indentation problems? Each correct answer presents part of the solution. (Choose three.)

- A. Line 01
- B. Line 02
- C. Line 03
- D. Line 04
- E. Line 05
- F. Line 06
- G. Line 07
- H. Line 08

Correct Answer: FGH

QUESTION 2

HOTSPOT

The ABC Video company needs a way to determine the cost that a customer will pay for renting a DVD. The cost is dependent on the time of day the DVD is returned. However, there are also special rates on Thursdays and Sundays. The fee

structure is shown in the following list:

The cost is \$1.59 per night.

If the DVD is returned after 8 PM, the customer will be charged an extra day.

If the video is rented on a Sunday, the customer gets 30% off for as long as they keep the video.

If the video is rented on a Thursday, the customer gets 50% off for as long as they keep the video.

You need to write code to meet the requirements.

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

Hot Area:

Answer Area

```
# ABC      Video, DVD Rental Calculator

ontime = input("Was video returned before 8 pm? y or n").lower()

days_rented = int(input("How many days was video rented?"))

day_rented = input("What day was the video rented?").capitalize()

cost_per_day = 1.59

if ontime
    

|         |   |
|---------|---|
|         | ▼ |
| != "n": |   |
| == "n": |   |
| == "y": |   |


    days_rented +-1

if day_rented
    

|               |   |
|---------------|---|
|               | ▼ |
| == "Sunday ": |   |
| >= "Sunday ": |   |
| is "Sunday ": |   |


    total = (days_rented * cost_per_day) * .7

elif day_rented
    

|                |   |
|----------------|---|
|                | ▼ |
| == "Thursday": |   |
| <= "Thursday": |   |
| is "Thursday": |   |


    total = (days_rented * cost_per_day) * .5

else:
    total = days_rented * cost_per_day

print("Cost of the DVD rental is : $", total)
```

Correct Answer:

Answer Area

```
# ABC      Video, DVD Rental Calculator

ontime = input("Was video returned before 8 pm? y or n").lower()

days_rented = int(input("How many days was video rented?"))

day_rented = input("What day was the video rented?").capitalize()

cost_per_day = 1.59

if ontime
    

|         |  |
|---------|--|
| != "n": |  |
| == "n": |  |
| == "y": |  |


    days_rented +-1

if day_rented
    

|               |  |
|---------------|--|
| == "Sunday ": |  |
| >= "Sunday ": |  |
| is "Sunday ": |  |


    total = (days_rented * cost_per_day) * .7

elif day_rented
    

|                |  |
|----------------|--|
| == "Thursday": |  |
| <= "Thursday": |  |
| is "Thursday": |  |


    total = (days_rented * cost_per_day) * .5

else:
    total = days_rented * cost_per_day

print("Cost of the DVD rental is : $", total)
```

QUESTION 3

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 4

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 <code>a</code> is <code>str</code> .	<input type="checkbox"/>	<input type="checkbox"/>
After executing code segment 2, the data type of variable <code>b</code> is <code>float</code> .	<input type="checkbox"/>	<input type="checkbox"/>
After executing code segment 3, the data type of variable <code>c</code> is <code>int</code> .	<input type="checkbox"/>	<input type="checkbox"/>

Correct Answer:

Answer Area

	Yes	No
After executing code segment 1, the data type of variable <code>a</code> is <code>str</code> .	<input type="checkbox"/>	<input checked="" type="checkbox"/>
After executing code segment 2, the data type of variable <code>b</code> is <code>float</code> .	<input checked="" type="checkbox"/>	<input type="checkbox"/>
After executing code segment 3, the data type of variable <code>c</code> is <code>int</code> .	<input type="checkbox"/>	<input checked="" type="checkbox"/>

QUESTION 5

You are creating a function that manipulates a number. The function has the following requirements: A float is passed into the function The function must take the absolute value of the float Any decimal points after the integer must be removed

Which two math functions should you use? Each correct answer is part of the solution. (Choose two.)

- A. `math.fmod(x)`
- B. `math.frexp(x)`
- C. `math.floor(x)`
- D. `math.ceil(x)`
- E. `math.fabs(x)`

Correct Answer: CE

C: `math.floor(x)` returns the largest integer less than or equal to `x`.

E: `math.fabs(x)` returns the absolute value of `x`. Incorrect Answers:

A: `math.fmod()` takes two variables

B: `math.frexp(x)` returns the mantissa and exponent of `x` as the pair (`m`, `e`). `m` is a float and `e` is an integer

D: `math.ceil(x)` returns the smallest integer greater than or equal to `x`

References: <https://docs.python.org/2/library/math.html#number-theoretic-and-representation-functions>
<https://docs.python.org/3/library/math.html>