98-381 Q&As

Introduction to Programming Using Python

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QUESTION 1

You are creating a Python program that shows a congratulation message to employees on their service anniversary.

You need to calculate the number of years of service and print a congratulatory message.

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

```
01 start = input("How old were you on your start date?")
02 end = input("How old are you today?")
03
```

You need to complete the program.

Which code should you use at line 03?

A. print("Congratulations on" + (int(end)-int(start)) + "years of service!")

B. print("Congratulations on" + str(int(end)-int(start)) + "years of service!")

C. print("Congratulations on" + int(end - start) + "years of service!")

D. print("Congratulations on" + str(end - start)) + "years of service!")

Correct Answer: B

int must be converted to string

QUESTION 2

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

QUESTION 3

HOTSPOT

You are designing a decision structure to convert a student\\'s numeric grade to a letter grade. The program must assign a letter grade as specified in the following table:

Percentage range	Letter grade
90 through 100	A
80 through 89	B
70 through 79	C
65 through 69	D
0 through 64	F

For example, if the user enters a 90, the output should be, “Your letter grade is A”. Likewise, if a user enters an 89, the output should be “Your letter grade is B”. How should you complete the code? To answer, select the appropriate code segments in the answer area.

Hot Area:

```
#Letter Grade Converter

grade = int(input("Enter a numeric grade"))

[ if grade <= 90: | if grade >= 90: | elif grade > 90: | elif grade >= 90: ]

    letter_grade = 'A'

[ if grade > 80: | if grade >= 80: | elif grade > 80: | elif grade >= 80: ]

    letter_grade = 'B'

[ if grade > 70: | if grade >= 70: | elif grade > 70: | elif grade >= 70: ]

    letter_grade = 'C'

[ if grade > 65: | if grade >= 65: | elif grade > 65: | elif grade >= 65: ]

        letter_grade = 'D'
else:
        letter_grade = 'F'
```

Correct Answer:

```
#Letter Grade Converter

grade = int(input("Enter a numeric grade"))

[ if grade <= 90: | if grade >= 90: | elif grade > 90: | elif grade >= 90: ]

      letter_grade = 'A'

[ if grade > 80: | if grade >= 80: | elif grade > 80: | elif grade >= 80: ]

      letter_grade = 'B'

[ if grade > 70: | if grade >= 70: | elif grade > 70: | elif grade >= 70: ]

      letter_grade = 'C'

[ if grade > 65: | if grade >= 65: | elif grade > 65: | elif grade >= 65: ]

      letter_grade = 'D'
else:
      letter_grade = 'F'
```

QUESTION 4

HOTSPOT

You create a function to calculate the power of a number by using Python.

You need to ensure that the function is documented with comments.

You create the following code. Line numbers are included for reference only.

```
01 # The calc_power function calculates exponents
02 # x is the base
03 # y is the exponent
04 # The value of x raised to the y power is returned
05 def calc_power(x, y):
06    comment = "#Return the value"
07    return x**y # raise x to the y power
```

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

Hot Area:

Answer Area

	Yes	No
Lines 01 through 04 will be ignored for syntax checking.	○	○
The pound sign (#) is optional for lines 02 and 03.	○	○
The string in line 06 will be interpreted as a comment.	○	○
Line 07 contains an inline comment.	○	○

Correct Answer:

Answer Area

	Yes	No
Lines 01 through 04 will be ignored for syntax checking.	◉	○
The pound sign (#) is optional for lines 02 and 03.	○	◉
The string in line 06 will be interpreted as a comment.	○	◉
Line 07 contains an inline comment.	○	◉

QUESTION 5

The ABC company is creating a program that allows customers to log the number of miles biked. The program will send messages based on how many miles the customer logs. You create the following Python code. Line numbers are included for reference only.

```
01
02      name = input("What is your name? ")
03      return name
04
05      calories = miles * calories_per_mile
07      return calories
08 distance = int(input("How many miles did you bike this week? "))
09 burn_rate = 50
10 biker = get_name()
11 calories_burned = calc_calories(distance, burn_rate)
12 print(biker, ", you burned about" ,calories_burned, "calories.")
```

You need to define the two required functions.

Which code segments should you use for line 01 and line 04? Each correct answer presents part of the solution? (Choose two.)

A. 01 def get_name():

B. 01 def get_name(biker):

C. 01 def get_name(name):

D. 04 def calc_calories():

E. 04 def calc_calories(miles, burn_rate):

F. 04 def calc_calories(miles, calories_per_mile):

Correct Answer: AF

References: https://www.w3resource.com/python/python-user-defined-functions.php