



98-381^{Q&As}

Introduction to Programming Using Python

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QUESTION 1

HOTSPOT

You are developing a Python application for your company.

You write the following code:

```
numList = [1,2,3,4,5]
alphaList = ["a","b","c","d","e"]
print(numList is alphaList)
print(numList == alphaList)
numList = alphaList
print(numList is alphaList)
print(numList == alphaList)
```

Use the drop-down menus to select the answer choice that answers each question based on the information presented in the code segment.

Hot Area:

Answer Area

What is displayed after the first print?

| | |
|-------|---|
| | ▼ |
| True | |
| False | |

What is displayed after the second print?

| | |
|-------|---|
| | ▼ |
| True | |
| False | |

What is displayed after the third print?

| | |
|-------|---|
| | ▼ |
| True | |
| False | |

What is displayed after the fourth print?

| | |
|-------|---|
| | ▼ |
| True | |
| False | |



Correct Answer:

Answer Area

What is displayed after the first print?

| | |
|-------|---|
| | ▼ |
| True | |
| False | |

What is displayed after the second print?

| | |
|-------|---|
| | ▼ |
| True | |
| False | |

What is displayed after the third print?

| | |
|-------|---|
| | ▼ |
| True | |
| False | |

What is displayed after the fourth print?

| | |
|-------|---|
| | ▼ |
| True | |
| False | |

QUESTION 2

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 3

HOTSPOT

The ABC organics company needs a simple program that their call center will use to enter survey data for a new coffee variety.

The program must accept input and return the average rating based on a five-star scale. The output must be rounded to two decimal places.

You need to complete the code to meet the requirements.

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

```
sum = count = done = 0
average = 0.0
```

```
while (done != -1):
```

```
    rating =
```

```
    if rating == -1:
        break
    sum+=rating
    count+=1
```

| |
|--|
| <input type="text"/> |
| print("Enter next rating (1-5), -1 for done") |
| float(input("Enter next rating (1-5), -1 for done")) |
| input("Enter next rating (1-5), -1 for done") |
| input "Enter next rating (1-5), -1 for done") |

```
average = float(sum/count)
```

| |
|--|
| <input type="text"/> |
| output("The average star rating for NetVerZleep coffee is: ") |
| console.input("The average star rating for the new coffee is: ") |
| println("The average star rating for the new coffee is: ") |
| print("The average star rating for the new coffee is: ") |

+

| |
|------------------------|
| <input type="text"/> |
| format(average, '.2f') |
| format(average, '.2d') |
| {average, '.2f'} |
| format.average.{2d} |

Correct Answer:



Answer Area

```
sum = count = done = 0  
average = 0.0
```

```
while (done != -1):
```

```
    rating =
```

```
    if rating == -1:  
        break  
    sum+=rating  
    count+=1
```

```
print("Enter next rating (1-5), -1 for done")  
float(input("Enter next rating (1-5), -1 for done"))  
input("Enter next rating (1-5), -1 for done")  
input "Enter next rating (1-5), -1 for done")
```

```
average = float(sum/count)
```

```
output("The average star rating for NetVerZleep coffee is: ")  
console.input("The average star rating for the new coffee is: ")  
println("The average star rating for the new coffee is: ")  
print("The average star rating for the new coffee is: ")
```

+

```
format(average, '.2f')  
format(average, '.2d')  
{average, '.2f'}  
format.average.{2d}
```

References: <https://www.w3resource.com/python/python-format.php#num>

QUESTION 4

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 5

HOTSPOT

You are developing a Python application for an online product distribution company.

You need the program to iterate through a list of products and escape when a target product ID is found.

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

NOTE: Each correct selection is worth one point.

Hot Area:



Answer Area

```
productIdList = [0, 1, 2, 3, 4, 5, 6, 7, 8, 9]  
index = 0
```

| | |
|-------|---|
| | ▼ |
| while | |
| for | |
| if | |
| break | |

```
(index < 10) :
```

```
    print(productIdList[index])
```

```
    if productIdList[index] == 6 :
```

| | |
|-------|---|
| | ▼ |
| while | |
| for | |
| if | |
| break | |

```
    else :
```

Correct Answer:



Answer Area

```
productIdList = [0, 1, 2, 3, 4, 5, 6, 7, 8, 9]  
index = 0
```

| | |
|-------|---|
| | ▼ |
| while | |
| for | |
| if | |
| break | |

```
(index < 10) :
```

```
    print(productIdList[index])
```

```
    if productIdList[index] == 6 :
```

| | |
|-------|---|
| | ▼ |
| while | |
| for | |
| if | |
| break | |

```
    else :
```

References: <https://www.w3resource.com/python/python-while-loop.php>

QUESTION 6

You are writing a Python program to automate inventory. Your first task is to read a file of inventory transactions. The file contains sales from the previous day, including the item id, price, and quantity. The following shows a sample of data from the file:



```
10, 200, 5
20, 100, 1
```

The code must meet the following requirements: Each line of the file must be read and printed. If a blank line is encountered, it must be ignored. When all lines have been read, the file must be closed.

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

```
01 inventory = open("inventory.txt", 'r')
02 eof = False
03 while eof == False:
04     line = inventory.readline()
05
06
07     print(line)
08 else:
09     print ("End of file")
10     eof = True
11     inventory.close()
```

Which code should you write for line 05 and line 06?

- A. 05 if line != '\n':
06 if line != "":
- B. 05 if line != '\n':
06 if line != None:
- C. 05 if line != '':
06 if line != "":
- D. 05 if line != '':
06 if line != "\n":

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: A

<https://www.dotnetperls.com/readline-python>

QUESTION 7

You are writing code that generates a random integer with a minimum value of 5 and a maximum value of 11. Which two functions should you use? Each correct answer presents a complete solution. (Choose two.)



- A. random.randint(5, 12)
- B. random.randint(5, 11)
- C. random.randrange(5, 12, 1)
- D. random.randrange(5, 11, 1)

Correct Answer: BC

References: <https://docs.python.org/3/library/random.html#>

QUESTION 8

Evaluate the following Python arithmetic expression:

```
(3*(1+2)**2 - (2**2)*3)
```

What is the result?

- A. 3
- B. 13
- C. 15
- D. 69

Correct Answer: C

References: http://www.mathcs.emory.edu/~valerie/courses/fall10/155/resources/op_precedence.html

QUESTION 9

HOTSPOT

You develop a Python application for your company.

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

```
01 def main(a,b,c,d):  
02     value = a+b*c-d  
03     return value
```

Use the drop-down menus to select the answer choice that answers each question based on the information presented in the code segment.

Hot Area:



Answer Area

Which part of the expression will be evaluated first?

| |
|-----|
| a+b |
| b*c |
| c-d |

Which operation will be evaluated second?

| |
|-------------|
| addition |
| subtraction |

Which expression is equivalent to the expression in the function?

| |
|---------------------|
| $(a+b) * (c-d)$ |
| $(a + (b*c)) - d$ |
| $a + ((b * c) - d)$ |

Correct Answer:

Answer Area

Which part of the expression will be evaluated first?

| |
|-----|
| a+b |
| b*c |
| c-d |

Which operation will be evaluated second?

| |
|-------------|
| addition |
| subtraction |

Which expression is equivalent to the expression in the function?

| |
|---------------------|
| $(a+b) * (c-d)$ |
| $(a + (b*c)) - d$ |
| $a + ((b * c) - d)$ |

QUESTION 10

DRAG DROP

You are writing a function that works with files.

You need to ensure that the function returns None if the file does not exist. If the file does exist, the function must return the first line.

You write the following code:

```
import os
def get_first_line(filename, mode):
```

In which order should you arrange the code segments to complete the function? To answer, move all code segments from the list of code segments to the answer area and arrange them in the correct order.



Select and Place:

Code Segments

```
if os.path.isfile(filename):
```

```
    return file.readline()
```

```
with open(filename, 'r') as file:
```

```
    return None
```

```
else:
```

Answer Area

Correct Answer:

Code Segments

Answer Area

```
with open(filename, 'r') as file:
```

```
    if os.path.isfile(filename):
```

```
        return file.readline()
```

```
    else:
```

```
        return None
```

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