

98-381^{Q&As}

Introduction to Programming Using Python

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QUESTION 1

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 2

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 3

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 4

You develop a Python application for your school.

You need to read and write data to a text file. If the file does not exist, it must be created. If the file has content, the content must be removed.

Which code should you use?

- A. `open("local_data", "r")`
- B. `open("local_data", "r+")`
- C. `open("local_data", "w+")`
- D. `open("local_data", "w")`

Correct Answer: C

Modes `\\'r+\\'`, `\\'w+\\'` and `\\'a+\\'` open the file for updating (reading and writing). Mode `\\'w+\\'` truncates the file.

References:

<https://docs.python.org/2/library/functions.html>

<https://pythontips.com/2014/01/15/the-open-function-explained/>

QUESTION 5

HOTSPOT

You create the following program to locate a conference room and display the room name. Line numbers are included for reference only.

```
01 rooms = {1: 'Foyer', 2: 'Conference Room'}
02 room = input('Enter the room number: ')
03 if not room in rooms:
04     print('Room does not exist.')
05 else:
06     print("The room name is " + rooms[room])
```

Colleagues report that the program sometimes produces incorrect results.

You need to troubleshoot the program. 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 two data types are stored in the `rooms` list at line 01?

	▼
bool and string	
float and bool	
int and string	
float and int	

What is the data type of `room` at line 02?

	▼
bool	
float	
int	
string	

Why does line 03 fail to find the rooms?

	▼
Invalid syntax	
Mismatched data type(s)	
Misnamed variable(s)	

Correct Answer:

Answer Area

Which two data types are stored in the `rooms` list at line 01?

	▼
bool and string	
float and bool	
int and string	
float and int	

What is the data type of `room` at line 02?

	▼
bool	
float	
int	
string	

Why does line 03 fail to find the rooms?

	▼
Invalid syntax	
Mismatched data type(s)	
Misnamed variable(s)	