



# 98-381<sup>Q&As</sup>

Introduction to Programming Using Python

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## QUESTION 1

You develop a Python application for your company.

A list named `employees` contains 200 employee names, the last five being company management. You need to slice the list to display all employees excluding management.

Which two code segments should you use? Each correct answer presents a complete solution. (Choose two.)

A. `employees [1:-4]`

B. `employees[: -5]`

C. `employees [1:-5]`

D. `employees [0:-4]`

E. `employees [0:-5]`

Correct Answer: BE

References: <https://www.w3resource.com/python/python-list.php#slice>

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## QUESTION 2

### HOTSPOT

The ABC company is building a basketball court for its employees to improve company morale.

You are creating a Python program that employees can use to keep track of their average score.

The program must allow users to enter their name and current scores. The program will output the user name and the user's average score. The output must meet the following requirements:

The user name must be left-aligned.

If the user name has fewer than 20 characters, additional space must be added to the right.

The average score must have three places to the left of the decimal point and one place to the right of the decimal (XXX.X).

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

```
name = input("what is your name?")
score = 0
count = 0
while(score != -1):
    score = int(input("Enter your scores: (-1 to end)"))
    if score == -1:
        break
    sum += score
    count += 1
average_score = sum / count
print(" ", your average score is: " %(name, average))
```

▼
%-20i
%-20d
%-20f
%-20s

▼
%1.4s
%4.1f
%4.1s
%1.4f

Correct Answer:



## Answer Area

```
name = input("what is your name?")
score = 0
count = 0
while(score != -1):
    score = int(input("Enter your scores: (-1 to end)"))
    if score == -1:
        break
    sum += score
    count += 1
average_score = sum / count
print("your average score is: ", "%(name, average))"
```

▼
%-20i
%-20d
%-20f
%-20s

▼
%1.4s
%4.1f
%4.1s
%1.4f

References: [https://www.python-course.eu/python3\\_formatted\\_output.php](https://www.python-course.eu/python3_formatted_output.php)

### QUESTION 3

#### HOTSPOT

You work for a company that distributes media for all ages.

You are writing a function that assigns a rating based on a user's age. The function must meet the following requirements:

Anyone 18 years old or older receives a rating of "A"

Anyone 13 or older, but younger than 18, receives a rating of "T"

Anyone 12 years old or younger receives a rating of "C"

If the age is unknown, the rating is set to "C"

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.

Hot Area:



## Answer Area

```
def get_rating(age):
```

```
    rating = ""
```

```
    if
```

```
        age < 13: rating = "C"
```

```
        age < 18: rating = "T"
```

```
        : rating = "A"
```

```
        age == None: rating = "C"
```

```
    elif
```

```
        age < 13: rating = "C"
```

```
        age < 18: rating = "T"
```

```
        : rating = "A"
```

```
        age == None: rating = "C"
```

```
    elif
```

```
        age < 13: rating = "C"
```

```
        age < 18: rating = "T"
```

```
        : rating = "A"
```

```
        age == None: rating = "C"
```

```
    else
```

```
        age < 13: rating = "C"
```

```
        age < 18: rating = "T"
```

```
        : rating = "A"
```

```
        age == None: rating = "C"
```

```
    return rating
```



Correct Answer:





## Answer Area

```
def get_rating(age):
```

```
    rating = ""
```

```
    if
```

```
        age < 13: rating = "C"
```

```
        age < 18: rating = "T"
```

```
        : rating = "A"
```

```
        age == None: rating = "C"
```

```
    elif
```

```
        age < 13: rating = "C"
```

```
        age < 18: rating = "T"
```

```
        : rating = "A"
```

```
        age == None: rating = "C"
```

```
    elif
```

```
        age < 13: rating = "C"
```

```
        age < 18: rating = "T"
```

```
        : rating = "A"
```

```
        age == None: rating = "C"
```

```
    else
```

```
        age < 13: rating = "C"
```

```
        age < 18: rating = "T"
```

```
        : rating = "A"
```

```
        age == None: rating = "C"
```

```
    return rating
```



References: <https://www.w3resource.com/python/python-if-else-statements.php>

#### QUESTION 4

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 5

##### HOTSPOT

You are developing a Python application for an online game.

You need to create a function that meets the following criteria: The function is named `update_score` The function receives the current score and a value The function adds the value to the current score The function returns the new score

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

Hot Area:





## Answer Area

<div>update_score</div> <div>def update_score</div> <div>return update_score</div>	<div>(current, value):</div> <div>():</div> <div>(current, value)</div> <div>():</div>
<div>current += value</div>	
<div>pass current</div> <div>return current</div> <div>return</div> <div>pass</div>	

Correct Answer:

## Answer Area

<div>update_score</div> <div>def update_score</div> <div>return update_score</div>	<div>(current, value):</div> <div>():</div> <div>(current, value)</div> <div>():</div>
<div>current += value</div>	
<div>pass current</div> <div>return current</div> <div>return</div> <div>pass</div>	

### QUESTION 6

DRAG DROP

You are writing a Python program that evaluates an arithmetic formula.

The formula is described as b equals a multiplied by negative one, then raised to the second power, where a is the value that will be input and b is the result.

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



```
01 a = eval(input("Enter a number for the equation: "))  
02 b =
```

You need to ensure that the result is correct.

How should you complete the code on line 02? To answer, drag the appropriate code segment to the correct location. Each code segment may be used once, more than once, or not at all. You may need to drag the split bar between panes or

scroll to view content.

NOTE: Each correct selection is worth one point.

Select and Place:

#### Code Segments

-	(	)	**	**2	2	a
---	---	---	----	-----	---	---

#### Answer Area

b =

--	--	--	--	--

Correct Answer:

#### Code Segments

			**		2	
--	--	--	----	--	---	--

#### Answer Area

b =

(	-	a	)	**2
---	---	---	---	-----

## QUESTION 7

### 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
```

## QUESTION 8

### DRAG DROP

You are writing a Python program to perform arithmetic operations.

You create the following code:

```
a = 11  
b = 4
```

What is the result of each arithmetic expression? To answer, drag the appropriate expression from the column on the left to its result on the right. Each expression may be used once, more than once, or not at all.

Select and Place:



## Results

```
print(a / b)
print(a // b)
print(a % b)
```

## Answer Area

2

3

2.75

Correct Answer:

## Results

## Answer Area

2

```
print(a // b)
```

3

```
print(a % b)
```

2.75

```
print(a / b)
```

## QUESTION 9

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 10

DRAG DROP



You are creating a Python script to evaluate input and check for upper and lower case.

Which four code segments should you use to develop the solution? To answer, move the appropriate code segment from the list of code segments to the answer area and arrange them in the correct order.

Select and Place:

#### Code Segments

```
else:  
    print(name, "is mixed case.")
```

```
else:  
    print(name, "is lower case.")
```

```
name = input("Enter your name: ")
```

```
else:  
    print(name, "is upper case.")
```

```
elif name.upper() == name:  
    print(name, "is all upper case.")
```

```
if name.lower() == name:  
    print(name, "is all lower case.")
```

#### Answer Area

Correct Answer:

#### Code Segments

```
else:  
    print(name, "is lower case.")
```

```
elif name.upper() == name:  
    print(name, "is all upper case.")
```

#### Answer Area

```
name = input("Enter your name: ")
```

```
if name.lower() == name:  
    print(name, "is all lower case.")
```

```
else:  
    print(name, "is upper case.")
```

```
else:  
    print(name, "is mixed case.")
```

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

#### QUESTION 11



## 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 12

### HOTSPOT

You are coding a math utility by using Python.

You are writing a function to compute roots.

The function must meet the following requirements:

If `a` is non-negative, return `a**(1/b)`  
If `a` is negative and even, return "Result is an imaginary number"  
If `a` is negative and odd, return `-(-a)**(1/b)`

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

Hot Area:





```
def safe_root(a, b):
```

```
    if a >= 0:  
        if a % 2 == 0:  
            else:  
            elif:
```

```
        answer = a**(1/b)
```

```
    if a >= 0:  
        if a % 2 == 0:  
            else:  
            elif:
```

```
    if a >= 0:  
        if a % 2 == 0:  
            else:  
            elif:
```

```
        answer = "Result is an imaginary number"
```

```
    if a >= 0:  
        if a % 2 == 0:  
            else:  
            elif:
```

```
        answer = -(-a)**(1/b)
```

```
    return answer
```



Correct Answer:



```
def safe_root(a, b):
```

```
    if a >= 0:  
        if a % 2 == 0:  
            else:  
            elif:
```

```
        answer = a**(1/b)
```

```
    if a >= 0:  
        if a % 2 == 0:  
            else:  
            elif:
```

```
    if a >= 0:  
        if a % 2 == 0:  
            else:  
            elif:
```

```
        answer = "Result is an imaginary number"
```

```
    if a >= 0:  
        if a % 2 == 0:  
            else:  
            elif:
```

```
        answer = -(-a)**(1/b)
```

```
    return answer
```



### QUESTION 13

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



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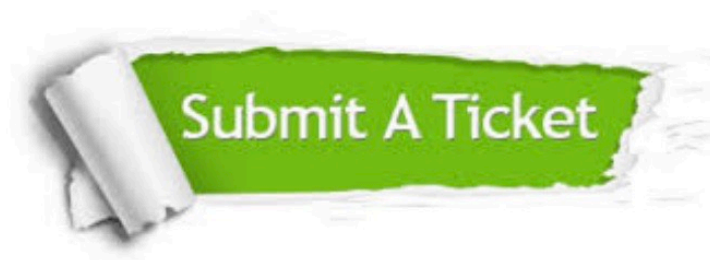
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