

98-381^{Q&As}

Introduction to Programming Using Python

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QUESTION 1

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 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

QUESTION 3

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)

QUESTION 4

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
```

▼

```
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}
```

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: ")
printline("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 5

HOTSPOT

You find errors while evaluating the following code. Line numbers are included for reference only.

```
01 numbers = [0, 1, 2, 3, 4, 5, 6, 7, 8, 9]
02 index = 0
03 while (index < 10)
04     print(numbers[index])
05
06     if numbers(index) = 6
07         break
08     else :
09         index += 1
```

You need to correct the code at line 03 and line 06.

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Which code segment should you use at line 03?

▼
while (index < 10) :
while [index < 10]
while (index < 5) :
while [index < 5]

Which code segment should you use at line 06?

▼
if numbers[index] == 6
if numbers[index] == 6 :
if numbers(index) = 6 :
if numbers(index) != 6

Correct Answer:

Answer Area

Which code segment should you use at line 03?

▼
while (index < 10) :
while [index < 10]
while (index < 5) :
while [index < 5]

Which code segment should you use at line 06?

▼
if numbers[index] == 6
if numbers[index] == 6 :
if numbers(index) = 6 :
if numbers(index) != 6

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