



98-381^{Q&As}

Introduction to Programming Using Python

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QUESTION 1

You are writing an application that uses the `sqrt` function. The program must reference the function using the name `squareRoot`.

You need to import the function.

Which code segment should you use?

- A. `import math.sqrt as squareRoot`
- B. `import sqrt from math as squareRoot`
- C. `from math import sqrt as squareRoot`
- D. `from math.sqrt as squareRoot`

Correct Answer: C

References: <https://infohost.nmt.edu/tcc/help/pubs/python/web/import-statement.html>

QUESTION 2

DRAG DROP

Match the data type to the type operations.

To answer, drag the appropriate data type to the correct type operation. Each data type may be used once, more than once, or not at all.

Select and Place:

Data Types

<code>int</code>	<code>float</code>	<code>str</code>	<code>bool</code>
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Answer Area

`type (+1E10)`

`type (5.0)`

`type ("True")`

`type (False)`

Correct Answer:

**Data Types**

`int` `float` `str` `bool`

Answer Area

type (+1E10)

`float`

type (5.0)

`float`

type ("True")

`str`

type (False)

`bool`

References: <https://www.w3resource.com/python/python-data-type.php>

QUESTION 3**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 4**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 5

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?

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

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