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## Introduction to Programming Using Python

Microsoft 98-381

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## QUESTION NO: 1 - (HOTSPOT)

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)	

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?

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

## Explanation:

References: [http://www.mathcs.emory.edu/~valerie/courses/fall10/155/resources/op\\_precedence.html](http://www.mathcs.emory.edu/~valerie/courses/fall10/155/resources/op_precedence.html)  
<http://interactivepython.org/runestone/static/pythonds/BasicDS/InfixPrefixandPostfixExpressions.html>

## QUESTION NO: 2

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]

**ANSWER: B E**

## Explanation:

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

## QUESTION NO: 3

You develop a Python application for your company.

You want to add notes to your code so other team members will understand it.

What should you do?

- A. Place the notes after the # sign on any line
- B. Place the notes after the last line of code separated by a blank line
- C. Place the notes before the first line of code separated by a blank line
- D. Place the notes inside of parentheses on any time

**ANSWER: A**

**Explanation:**

References: <http://www.pythonforbeginners.com/comments/comments-in-python>

## QUESTION NO: 4 - (DRAG DROP)

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**

**Answer Area**

if os.path.isfile(filename):

return file.readline()

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

return None

else:

**ANSWER:**

**Code Segments**


**Answer Area**

<code>with open(filename, 'r') as file:</code>
<code>if os.path.isfile(filename):</code>
<code>return file.readline()</code>
<code>else:</code>
<code>return None</code>

**Explanation:**

References: <http://effbot.org/zone/python-with-statement.htm>

## QUESTION NO: 5 - (HOTSPOT)

HOTSPOT

The ABC Video company needs a way to determine the cost that a customer will pay for renting a DVD. The cost is dependent on the time of day the DVD is returned. However, there are also special rates on Thursdays and Sundays. The fee structure is shown in the following list:

- The cost is \$1.59 per night.
- If the DVD is returned after 8 PM, the customer will be charged an extra day.
- If the video is rented on a Sunday, the customer gets 30% off for as long as they keep the video.
- If the video is rented on a Thursday, the customer gets 50% off for as long as they keep the video.

You need to write 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

```
# ABC Video, DVD Rental Calculator

ontime = input("Was video returned before 8 pm? y or n").lower()

days_rented = int(input("How many days was video rented?"))

day_rented = input("What day was the video rented?").capitalize()

cost_per_day = 1.59

if ontime
    

|         |
|---------|
| != "n": |
| == "n": |
| == "y": |


    days_rented +-1

if day_rented
    

|              |
|--------------|
| == "Sunday": |
| >= "Sunday": |
| is "Sunday": |


    total = (days_rented * cost_per_day) * .7

elif day_rented
    

|                |
|----------------|
| == "Thursday": |
| <= "Thursday": |
| is "Thursday": |


    total = (days_rented * cost_per_day) * .5

else:
    total = days_rented * cost_per_day

print("Cost of the DVD rental is : $", total)
```

**ANSWER:**

## Answer Area

```
# ABC      Video, DVD Rental Calculator

ontime = input("Was video returned before 8 pm? y or n").lower()
days_rented = int(input("How many days was video rented?"))
day_rented = input("What day was the video rented?").capitalize()
cost_per_day = 1.59

if ontime
    

|         |
|---------|
| != "n": |
| == "n": |
| == "y": |


    days_rented +-1

if day_rented
    

|              |
|--------------|
| == "Sunday": |
| >= "Sunday": |
| is "Sunday": |


    total = (days_rented * cost_per_day) * .7

elif day_rented
    

|                |
|----------------|
| == "Thursday": |
| <= "Thursday": |
| is "Thursday": |


    total = (days_rented * cost_per_day) * .5

else:
    total = days_rented * cost_per_day

print("Cost of the DVD rental is : $", total)
```

## Explanation:

## References:

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