



98-381^{Q&As}

Introduction to Programming Using Python

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QUESTION 1

Evaluate the following Python arithmetic expression:

```
(3*(1+2)**2 - (2**2)*3)
```

What is the result?

- A. 3
- B. 13
- C. 15
- D. 69

Correct Answer: C

References: http://www.mathcs.emory.edu/~valerie/courses/fall10/155/resources/op_precedence.html

QUESTION 2

HOTSPOT

You are developing a Python application for an online product distribution company.

You need the program to iterate through a list of products and escape when a target product ID is found.

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

```
productIdList = [0, 1, 2, 3, 4, 5, 6, 7, 8, 9]  
index = 0
```

	▼
while	
for	
if	
break	

(index < 10) :

```
print(productIdList[index])
```

```
if productIdList[index] == 6 :
```

	▼
while	
for	
if	
break	

```
else :
```

Correct Answer:



Answer Area

```
productIdList = [0, 1, 2, 3, 4, 5, 6, 7, 8, 9]  
index = 0
```

	▼
while	
for	
if	
break	

(index < 10) :

```
print(productIdList[index])
```

```
if productIdList[index] == 6 :
```

	▼
while	
for	
if	
break	

```
else :
```

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

QUESTION 3

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 4

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)
```



Correct 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)
```




QUESTION 5

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/>

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