

Microsoft

Exam Questions 98-381

Introduction to Programming Using Python



NEW QUESTION 1

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.

Answer 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'
```

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

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

NEW 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.

Answer Area

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

▼

while

for

if

break

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

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

```
else
```

▼

while

for

if

break

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

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

NEW QUESTION 3

You are creating a function that manipulates a number. The function has the following requirements:

? A float is passed into the function

? The function must take the absolute value of the float

? Any decimal points after the integer must be removed

Which two math functions should you use? Each correct answer is part of the solution? (Choose two.)

- A. `math.fmod(x)`
- B. `math.frexp(x)`
- C. `math.floor(x)`
- D. `math.ceil(x)`
- E. `math.fabs(x)`

Answer: DE

Explanation:

References: <https://docs.python.org/2/library/math.html#number-theoretic-and-representation-functions>

NEW QUESTION 4

The ABC company has hired you as an intern on the coding team that creates e-commerce applications.

You must write a script that asks the user for a value. The value must be used as a whole number in a calculation, even if the user enters a decimal value.

You need to write the code to meet the requirements. Which code segment should you use?

- A. `totalItems = input("How many items would you like?")`
- B. `totalItems = float(input("How many items would you like?"))`
- C. `totalItems = str(input("How many items would you like?"))`
- D. `totalItems = int(input("How many items would you like?"))`

Answer: A

Explanation:

References: <http://www.informit.com/articles/article.aspx?p=2150451&seqNum=6>

NEW QUESTION 5

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

Answer: B

NEW QUESTION 6

DRAG DROP

You are writing a Python program to perform arithmetic operations. You create the following code:

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

Results

<code>print(a / b)</code>	<code>print(a // b)</code>
<code>print(a % b)</code>	

Answer Area

2	<input type="text"/>
3	<input type="text"/>
2.75	<input type="text"/>

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.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

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

NEW QUESTION 7

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.

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
    days_rented += 1

if day_rented
    total = (days_rented * cost_per_day) * .7

elif day_rented
    total = (days_rented * cost_per_day) * .5

else:
    total = days_rented * cost_per_day

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

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

References:

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

NEW QUESTION 8

You are creating a function that reads a data file and prints each line of the file. You write the following code. Line numbers are included for reference only.

```
01 import os
02 def read_file(file):
03     line = None
04     if os.path.isfile(file):
05         data = open(file, 'r')
06         while line != '':
07             line = data.readline()
08             print(line)
```

The code attempts to read the file even if the file does not exist. You need to correct the code.

Which three lines have indentation problems? Each correct answer presents part of the solution. (Choose three.)

- A. Line 01
- B. Line 02
- C. Line 03
- D. Line 04
- E. Line 05
- F. Line 06
- G. Line 07
- H. Line 08

Answer: F

NEW QUESTION 9

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

Answer: C

Explanation:

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

NEW QUESTION 10

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 =
```

Code Segments

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

Answer Area

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.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

b = (-a)**2

NEW QUESTION 10

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