

Microsoft

Exam Questions 98-381

Introduction to Programming Using Python



NEW QUESTION 1

HOTSPOT

During school holidays, you volunteer to explain some basic programming concepts to younger siblings. You want to introduce the concept of data types in Python. You create the following three code segments:

```
# Code segment 1
x1 = "20"
y1 = 3
a = x1 * y1

# Code segment 2
x2 = 6
y2 = 4
b = x2 / y2

# Code segment 3
x3 = 2.5
y3 = 1
c = x3 / y3
```

You need to evaluate the code segments.

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

NOTE: Each correct selection is worth one point.

Answer Area

Yes **No**

- | | | |
|--|-----------------------|-----------------------|
| After executing code segment 1, the data type of variable <code>a</code> is <code>str</code> . | <input type="radio"/> | <input type="radio"/> |
| After executing code segment 2, the data type of variable <code>b</code> is <code>float</code> . | <input type="radio"/> | <input type="radio"/> |
| After executing code segment 3, the data type of variable <code>c</code> is <code>int</code> . | <input type="radio"/> | <input type="radio"/> |

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

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

HOTSPOT

You are developing a Python application for an online game. You need to create a function that meets the following criteria:

- ? The function is named update_score
- ? The function receives the current score and a value
- ? The function adds the value to the current score
- ? The function returns the new score

How should you complete the code? To answer, select the appropriate code segments in the answer area.

Answer Area

▼

update_score
def update_score
return update_score

▼

(current, value):
():
(current, value)
()

▼

pass current
return current
return
pass

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

References: <https://www.w3resource.com/python/python-user-defined-functions.php>

NEW QUESTION 4

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.

Answer Area

Which part of the expression will be evaluated first?

Which operation will be evaluated second?

Which expression is equivalent to the expression in the function?

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

References: http://www.mathcs.emory.edu/~valerie/courses/fall10/155/resources/op_precedence.html
<http://interactivepython.org/runestone/static/pythonDS/BasicDS/InfixPrefixandPostfixExpressions.html>

NEW QUESTION 5

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 6

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 7

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 8

DRAG DROP

The ABC company is converting an existing application to Python. You are creating documentation that will be used by several interns who are working on the team.

You need to ensure that arithmetic expressions are coded correctly.

What is the correct order of operations for the six classes of operations ordered from first to last in order of precedence? To answer, move all operations from the list of operations to the answer area and arrange them in the correct order.

Operations

Answer Area

- Paranthesis
- Exponents
- And
- Multiplication and Division
- Addition and Subtraction
- Unary positive, negative, not

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

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

NEW QUESTION 9

HOTSPOT

You are an intern for ABC electric cars company. You must create a function that calculates the average velocity of their vehicles on a 1320 foot (1/4 mile) track. The output must be as precise as possible.

How should you complete the code? To answer, select the appropriate code segments in the answer area.

Answer Area

#Speed calculator

```
distance =  (input("Enter the distance traveled in feet"))
           
           int
           str
           float

distance_miles = distance/5280 #convert to miles
time =  (input("Enter the time elapsed in seconds"))
       
       int
       float
       str

time_hours = time/3600 #convert to hours
velocity = distance_miles/time_hours
print("The average velocity is : ", velocity, " miles/hour")
```

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

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

NEW QUESTION 10

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.

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
```

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

References: https://www.python-course.eu/python3_formatted_output.php

NEW QUESTION 10

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>

NEW QUESTION 14

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
    [dropdown menu: != "n", == "n", == "y"]
    days_rented +-1

if day_rented
    [dropdown menu: == "Sunday ", >= "Sunday ", is " Sunday "]
    total = (days_rented * cost_per_day) * .7

elif day_rented
    [dropdown menu: == "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)
```

- 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 16

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 21

DRAG DROP

You are building a Python program that displays all of the prime numbers from 2 to 100.

How should you complete the code? To answer, drag the appropriate code segments 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.

Code Segments	Answer Area
<pre>p = 2 while p <= 100: is_prime = True</pre>	<div style="border: 1px solid black; height: 30px; width: 100%;"></div> <div style="border: 1px solid black; height: 30px; width: 100%;"></div> <div style="border: 1px solid black; height: 30px; width: 100%;"></div> <pre>if is_prime == True: print(p)</pre> <div style="border: 1px solid black; height: 30px; width: 100%;"></div>
<pre>break</pre>	
<pre>p = p + 1</pre>	
<pre>for i in range(2, p): if p % i == 0: is_prime = False</pre>	
<pre>for i in range(2, p): if p % i == 0: is_prime = False</pre>	
<pre>continue</pre>	

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

References: <https://docs.python.org/3.1/tutorial/inputoutput.html>

<https://stackoverflow.com/questions/11619942/print-series-of-prime-numbers-in-python> <https://www.programiz.com/python-programming/examples/prime-number-intervals>

NEW QUESTION 23

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: E

Explanation:

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

NEW QUESTION 25

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!")`

Answer: A

NEW QUESTION 27

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 28

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 29

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