Exam Questions 98-381

Introduction to Programming Using Python

https://www.2passeasy.com/dumps/98-381/

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 a is str.	○	○
After executing code segment 2, the data type of variable b is float.	○	○
After executing code segment 3, the data type of variable c is int.	○	○

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 :
```

```
          ▼
     while
else 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 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?	▼
	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)

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/InfixPrefixandPostfixExpres sions.html

NEW QUESTION 4
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 5
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 6
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 7
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
Parenthesis	
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 8
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 [▼]
          != "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)
```
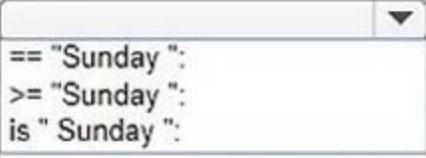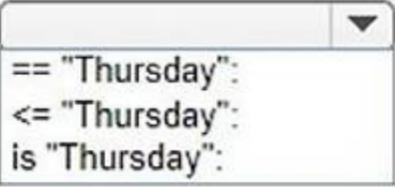
A. Mastered
B. Not Mastered

Answer: A

Explanation:
References:
https://www.w3resource.com/python/python-operators.php https://www.w3resource.com/python/python-if-else-statements.php

NEW QUESTION 9
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 10
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 10
This question requires that you evaluate the underlined text to determine if it is correct.
You write the following code:

```
import sys
try:
    file_in = open("in.txt", 'r')
    file_out = open("out.txt", 'w+')
except IOError:
    print('cannot open', file_name)
else:
    i = 1
    for line in file_in:
        print(line.rstrip())
        file_out.write("line " + str(i) + ": " + line)
        i = i + 1
    file_in.close()
    file_out.close()
```

The out.txt file does not exist. You run the code. The code will execute without error. Review the underlined text. If it makes the statement correct, select "No change is needed".
If the statement is incorrect, select the answer choice that makes the statement correct.

A. No change is needed
B. The code runs, but generates a logic error
C. The code will generate a runtime error
D. The code will generate a syntax error

Answer: D

Explanation:
References: https://docs.python.org/2/library/exceptions.html

NEW QUESTION 11
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.

Code Segments   **Answer Area**

```
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.")
```

A. Mastered
B. Not Mastered

Answer: A

Explanation:

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

NEW QUESTION 16
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 18
HOTSPOT
You work for a company that distributes media for all ages.
You are writing a function that assigns a rating based on a user's age. The function must meet the following requirements:
? Anyone 18 years old or older receives a rating of "A"
? Anyone 13 or older, but younger than 18, receives a rating of "T"
? Anyone 12 years old or younger receives a rating of "C"
? If the age is unknown, the rating is set to "C"
You need to complete the code to meet the requirements.

Answer Area

```
def get_rating(age):
    rating = ""
    if  [                        ▼]
    eli  age < 13: rating = "C"
    eli  age < 18: rating = "T"       ▼
         : rating = "A"                ▼
    els  age == None: rating = "C"    ▼
    return rating
```

```
def get_rating(age):
    rating = ""
    if  [                        ▼]
    elif [                       ▼]
    elif  age < 13: rating = "C"
    else  age < 18: rating = "T"
          : rating = "A"
    retur  age == None: rating = "C"
```

```
def get_rating(age):
    rating = ""
    if  [                        ▼]
    elif [                       ▼]
    elif [                       ▼]
    else  age < 13: rating = "C"
          age < 18: rating = "T"
    retur : rating = "A"
          age == None: rating = "C"
```

```
def get_rating(age):
    rating = ""
    if  [                        ▼]
    elif [                       ▼]
    elif [                       ▼]
    else [                       ▼]
    retur  age < 13: rating = "C"
           age < 18: rating = "T"
```

A. Mastered
B. Not Mastered

Answer: A

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

NEW QUESTION 20
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