



Microsoft

Exam Questions 98-381

Introduction to Programming Using Python

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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

You develop a Python application for your company.

You need to accept input from the user and print that information to the user screen. You have started with the following code. Line numbers are included for reference only.

Which code should you write at line 02?

```
01 print("What is your name?")
02
03 print(name)
```

- A. `name = input`
B. `input("name")`
C. `input(name)`
D. `name = input()`

Answer: B

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/InfixPrefixandPostfixExpressions.html>

NEW QUESTION 4
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.

Code Segments

if os.path.isfile(filename):

return file.readline()

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

return None

else:

Answer Area

- A. Mastered
- B. Not Mastered

Answer: A

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

NEW QUESTION 5
HOTSPOT

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

Answer Area

	Yes	No
A try statement can have one or more except clauses.	<input type="radio"/>	<input type="radio"/>
A try statement can have a finally clause without an except clause.	<input type="radio"/>	<input type="radio"/>
A try statement can have a finally clause and an except clause.	<input type="radio"/>	<input type="radio"/>
A try statement can have one or more finally clauses.	<input type="radio"/>	<input type="radio"/>

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

References: <https://docs.python.org/2.0/ref/try.html>

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 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")`

Answer: B

Explanation:

References: <https://pythontips.com/2014/01/15/the-open-function-explained/>

NEW QUESTION 8

HOTSPOT

You create the following program to locate a conference room and display the room name. Line numbers are included for reference only.

```
01 rooms = {1: 'Foyer', 2: 'Conference Room'}
02 room = input('Enter the room number: ')
03 if not room in rooms:
04     print('Room does not exist.')
05 else:
06     print("The room name is " + rooms[room])
```

Colleagues report that the program sometimes produces incorrect results.

You need to troubleshoot the program. 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 two data types are stored in the `rooms` list at line 01?

bool and string
float and bool
int and string
float and int

What is the data type of `room` at line 02?

bool
float
int
string

Why does line 03 fail to find the rooms?

Invalid syntax
Mismatched data type(s)
Misnamed variable(s)

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

References:

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

NEW QUESTION 9

HOTSPOT

You are writing a Python program to validate employee numbers.

The employee number must have the format ddd-dd-dddd and consist only of numbers and dashes. The program must print True if the format is correct and print False if the format is incorrect.

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

Answer Area

Employee_number = ""
Employee_number = "sentinel"

parts = ""

while employee_number != "":
while employee_number != "sentinel":

valid = False
valid = True

employee_number = input("Enter employee number (ddd-dd-dddd): ")
parts = employee_number.split('-')

if len(parts) == 3:

if len(parts[0]) == 3 and len(parts[1]) == 2 and len(parts[2]) == 4:

if parts[0].isdigit() and parts[1].isdigit() and parts[2].isdigit():

print(valid)

valid = False
valid = True

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

Employee_number = ""
Employee_number = "sentinel"

```
parts = ""
```

while employee_number != "":
while employee_number != "sentinel":

valid = False
valid = True

```
employee_number = input("Enter employee number (ddd-dd-dddd): ")  
parts = employee_number.split('-')
```

```
if len(parts) == 3:
```

```
    if len(parts[0]) == 3 and len(parts[1]) == 2 and len(parts[2]) == 4:
```

```
        if parts[0].isdigit() and parts[1].isdigit() and parts[2].isdigit():
```

```
print(valid)
```

valid = False
valid = True

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
```

!= "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 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 19

HOTSPOT

The ABC organics company needs a simple program that their call center will use to enter survey data for a new coffee variety.

The program must accept input and return the average rating based on a five-star scale. The output must be rounded to two decimal places.

You need to complete the code to meet the requirements.

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

```
sum = count = done = 0
average = 0.0
```

```
while (done != -1):
```

```
    rating =
```

```
    if rating == -1:
        break
    sum+=rating
    count+=1
```

print("Enter next rating (1-5), -1 for done")
 float(input("Enter next rating (1-5), -1 for done"))
 input("Enter next rating (1-5), -1 for done")
 input "Enter next rating (1-5), -1 for done")

```
average = float(sum/count)
```

output("The average star rating for NetVerZleep coffee is: ")
 console.input("The average star rating for the new coffee is: ")
 printline("The average star rating for the new coffee is: ")
 print("The average star rating for the new coffee is: ")

format(average, '.2f')
 format(average, '.2d')
 {average, '.2f'}
 format.average.{2d}

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

References: <https://www.w3resource.com/python/python-format.php#num>

NEW QUESTION 20

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

```
p = 2
while p <= 100:
    is_prime = True
```

```
break
```

```
p = p + 1
```

```
for i in range(2, p):
    if p % i == 0:
        is_prime = False
```

```
p = 2
is_prime = True
while p <= 100:
```

```
continue
```

```
for i in range(2, p):
    if p / i == 0:
        is_prime = False
```

Answer Area

```
if is_prime == True:
    print(p)
```

- 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 21

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

```
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.")
```

Answer Area

- A. Mastered
B. Not Mastered

Answer: A

Explanation:

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

NEW QUESTION 25

HOTSPOT

You are developing a Python application for your company. You write the following code:

```
numList = [1,2,3,4,5]
alphaList = ["a","b","c","d","e"]
print(numList is alphaList)
print(numList == alphaList)
numList = alphaList
print(numList is alphaList)
print(numList == alphaList)
```

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

What is displayed after the first print?

True
False

What is displayed after the second print?

True
False

What is displayed after the third print?

True
False

What is displayed after the fourth print?

True
False

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

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

NEW QUESTION 28

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 29

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
    elif age < 13: rating = "C"
    elif age < 18: rating = "T"
    elif : rating = "A"
    else age == None: rating = "C"
    return rating
```

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

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

```
def get_rating(age):
    rating = ""
    if
    elif
    elif
    else
    return 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 33
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 35

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