

98-381 Dumps

Introduction to Programming Using Python

<https://www.certleader.com/98-381-dumps.html>



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"/>

Answer:

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

NEW QUESTION 2

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'
```

Answer:

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

NEW QUESTION 3

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 4

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

<pre>update_score def update_score return update_score</pre>	<pre>(current, value): (): (current, value) ()</pre>
<pre>pass current return current return pass</pre>	

Answer:

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

NEW QUESTION 5

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

Answer Area

<code>if os.path.isfile(filename):</code>
<code>return file.readline()</code>
<code>with open(filename, 'r') as file:</code>
<code>return None</code>
<code>else:</code>

Answer:

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

NEW QUESTION 6

HOTSPOT

You create a function to calculate the power of a number by using Python. You need to ensure that the function is documented with comments.
You create the following code. Line numbers are included for reference only.

```
01 # The calc_power function calculates exponents
02 # x is the base
03 # y is the exponent
04 # The value of x raised to the y power is returned
05 def calc_power(x, y):
06     comment = "#Return the value"
07     return x**y # raise x to the y power
```

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

Answer Area

Yes No

Lines 01 through 04 will be ignored for syntax checking.

The pound sign (#) is optional for lines 02 and 03.

The string in line 06 will be interpreted as a comment.

Answer:

Explanation: References: <http://www.pythonforbeginners.com/comments/comments-in-python> <https://www.w3resource.com/python/python-string.php>

NEW QUESTION 7

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 8

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 9

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)

Answer:

Explanation: References:

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

NEW QUESTION 10

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
```

Answer:

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)
```

NEW QUESTION 10

DRAG DROP

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

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

Results

```
print(a / b)
print(a // b)
print(a % b)
```

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.

Answer:

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

NEW QUESTION 11

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 15

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)
```

Answer:

Explanation: References:

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

NEW QUESTION 18

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

DRAG DROP

You are writing a Python program. The program collects customer data and stores it in a database.

The program handles a wide variety of data.

You need to ensure that the program handles the data correctly so that it can be stored in the database correctly.

Match the data type to the code segment. To answer, drag the appropriate data type from the column on the left to its code segment on the right. Each data type may be used once, more than once, or not at all.

Operations

- bool
- float
- int
- str

Answer Area

- age = 2
- minor = False
- name = "Contoso"
- weight = 123.5
- zip = "81000"

Answer:

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

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

Answer:

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

NEW QUESTION 26

HOTSPOT

You find errors while evaluating the following code. Line numbers are included for reference only.

```
01 numbers = [0, 1, 2, 3, 4, 5, 6, 7, 8, 9]
02 index = 0
03 while (index < 10)
04     print(numbers[index])
05
06     if numbers(index) = 6
07         break
08     else :
09         index += 1
```

You need to correct the code at line 03 and line 06.

How should you correct the code? Use the drop-down menus to select the answer choice

that answers each question based on the information presented in the code segment. NOTE: Each correct selection is worth one point.

Answer Area

Which code segment should you use at line 03?

▼

while (index < 10) :

while [index < 10]

while (index < 5) :

while [index < 5]

Which code segment should you use at line 06?

▼

if numbers[index] == 6

if numbers[index] == 6 :

if numbers(index) = 6 :

if numbers(index) != 6

Answer:

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

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 30

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"
```

Answer:

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

NEW QUESTION 31

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.

Answer:

Explanation: b = (-a)**2

NEW QUESTION 33

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