98-381 Q&As

Introduction to Programming Using Python

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QUESTION 1

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)

Correct Answer: CE

C: math.floor(x) returns the largest integer less than or equal to x.

E: math.fabs(x) returns the absolute value of x. Incorrect Answers:

A: math.fmod() takes two variables

B: math.frexp(x) returns the mantissa and exponent of x as the pair (m, e). m is a float and e is an integer

D: math.ceil(x) returns the smallest integer greater than or equal to x

References: https://docs.python.org/2/library/math.html#number-theoretic-and-representation-functions https://docs.python.org/3/library/math.html

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.

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

Which code should you write at line 02?

A. name = input

B. input("name")

C. input(name)

D. name = input()

Correct Answer: B

QUESTION 3

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

Correct Answer: A

References: http://www.pythonforbeginners.com/comments/comments-in-python

QUESTION 4

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.

Hot 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)
```

Correct Answer:

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)
```

QUESTION 5

You are writing an application that uses the sqrt function. The program must reference the function using the name squareRoot.

You need to import the function.

Which code segment should you use?

A. import math.sqrt as squareRoot

B. import sqrt from math as squareRoot

C. from math import sqrt as squareRoot

D. from math.sqrt as squareRoot

Correct Answer: C

References: https://infohost.nmt.edu/tcc/help/pubs/python/web/import-statement.html

QUESTION 6

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 =
```

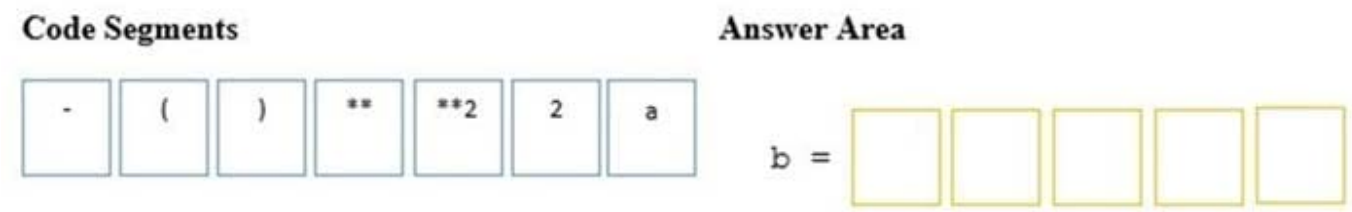
You need to ensure that the result is correct.

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

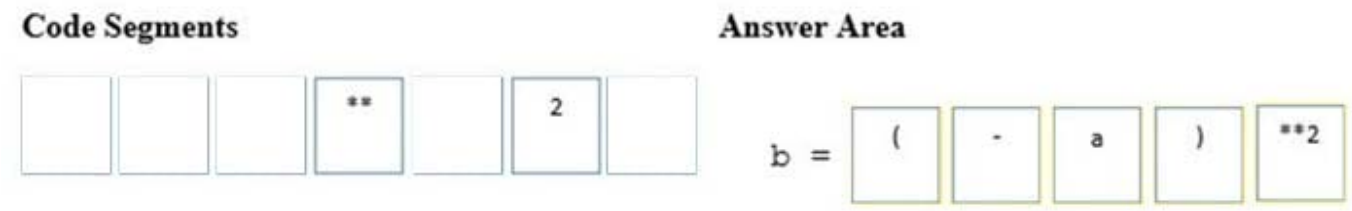
scroll to view content.

NOTE: Each correct selection is worth one point.

Select and Place:



Correct Answer:

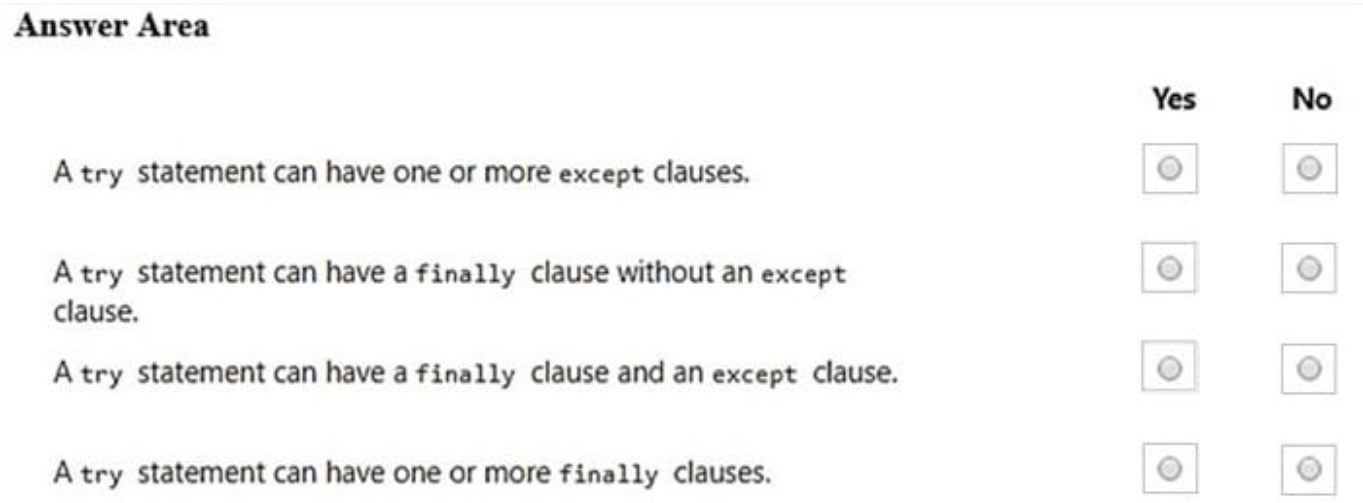


QUESTION 7

HOTSPOT

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

Hot Area:



Correct Answer:

Answer Area

	Yes	No
A `try` statement can have one or more `except` clauses.	◉	○
A `try` statement can have a `finally` clause without an `except` clause.	◉	○
A `try` statement can have a `finally` clause and an `except` clause.	◉	○
A `try` statement can have one or more `finally` clauses.	○	◉

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

QUESTION 8

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!")

Correct Answer: B

int must be converted to string

QUESTION 9

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.

Hot Area:

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.	○	○
Line 07 contains an inline comment.	○	○

Correct Answer:

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.	○	◉
Line 07 contains an inline comment.	○	◉

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.

Hot Area:

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

Correct Answer:

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("[ %-20i | %-20d | %-20f | %-20s ], your average score is: [ %1.4s | %4.1f | %4.1s | %1.4f ]"%(name, average))
```

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

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