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Introduction to Programming Using Python

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QUESTION 1

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 2

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.

Select and Place:

Operations

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

Answer Area

Correct Answer:

Operations

Answer Area

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

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

QUESTION 3

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 4

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")

Correct Answer: C

Modes \\'r+\\', \\'w+\\' and \\'a+\\' open the file for updating (reading and writing). Mode \\'w+\\' truncates the file.

References:

https://docs.python.org/2/library/functions.html

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

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)

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

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