Congratulations! You passed!

Grade received 100% To pass 80% or higher

Go to next item

1/1 point

1.	What's the value of this Python expression: $(2^{**}2) == 4$?	1 / 1 point
	O 4	
	O 2***2	
	● True	
	○ False	
	Correct You nailed it! The conditional operator == checks if two values are equal. The result of that operation is a boolean: either True or False.	
2.	Complete the script by filling in the missing parts. The function receives a name, then returns a greeting based on whether or not that name is "Taylor".	1 / 1 point
	<pre>1 def greeting(name): 2 if name == "Taylor": 3 return "Welcome back Taylor!" 4 else: 5 return "Hello there, " + name</pre>	
	6 7 print(greeting("Taylor")) 8 print(greeting("John")) Reset	
	○ Correct Great work! You're getting the hang of conditionals in Python.	
	of the field of th	
3.	What's the output of this code if number equals 10?	1 / 1 point
	1 if number > 11: 2 print(0)	
	<pre>3 elif number != 10: 4 print(1)</pre>	
	<pre>5 elif number >= 20 or number < 12: 6 print(2)</pre>	
	7 else: 8 print(3)	
	2	
	Correct Right on! Our number is 10, which is smaller than 12, so it matches that condition.	
4.	Is "A dog" smaller or larger than "A mouse"? Is 9999+8888 smaller or larger than 100*100? Replace the plus sign in the following code to let Python check it for you and then answer.	1/1 point
	1 print("A dog" < "A mouse")	
	2 print(9999+8888 < 100*100)	
	Run	
	Reset	
	Madog" is larger than "A mouse" and 9999+8888 is larger than 100*100	
	"A dog" is smaller than "A mouse" and 9999+8888 is larger than 100*100	
	MA dog" is larger than "A mouse" and 9999+8888 is smaller than 100*100	
	Madog" is smaller than "A mouse" and 9999+8888 is smaller than 100*100	
	○ Correct You got it! Keep getting Python to do the work for you.	

5. If a filesystem has a block size of 4096 bytes, this means that a file comprised of only one byte will still use 4096 bytes of storage. A file made up of 4097 bytes will use 4096*2=8192

bytes of storage. Knowing this, can you fill in the gaps in the calculate_storage function below, which calculates the total number of bytes needed to store a file of a given size?

def calculate_storage(filesize):

block_size = 4096

```
# Use TION division to calculate now many blocks are Tully occupied

full_blocks = filesize // block_size

# Use the modulo operator to check whether there's any remainder

partial_block_remainder = filesize % block_size

# Depending on whether there's a remainder or not, return

# the total number of bytes required to allocate enough blocks

# to store your data.

# to store your data.

# return (full_blocks+1)*block_size;

return full_blocks * block_size;

return full_blocks * block_size

# print(calculate_storage(1)) # Should be 4096

# print(calculate_storage(4096)) # Should be 8192

Run

Run

Reset
```

⊘ Correct

Awesome! Those were some complicated calculations that you needed to do, but you did it!