Practice Quiz: Conditionals

TOTAL POINTS 5

1.	What's the value of this Python expression: $(2**2) == 4?$	1 point
	O 4	
	2**2	
	True	
	○ 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 point
	1 def greeting(name):	
	2 if name == "Taylor": 3 return "Welcome back Taylor!"	
	4 else: 5 return "Hello there, " + name	
	6 7 print(greeting("Taylor"))	
	8 print(greeting("John")) Reset	
3.	What's the output of this code if number equals 10?	1 point
	1 if number > 11:	
	2 print(θ)	
	3 elif number != 10: 4 print(1)	
	5 elif number >= 20 or number < 12: 6 print(2)	
	7 else: 8 print(3)	
	v	
	2	
4.	Is "A dog" smaller or larger than "A mouse"? Is 9999+8888 smaller or larger than 100*100? Replace the plus sign	1 point
	in the following code to let Python check it for you and then answer.	
	1 print("A dog" < "A mouse") 2 print(9999+8888 > 100*100)	
	Run	
	Reset	
	"A dog" 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	
	"A dog" is larger than "A mouse" and 9999+8888 is smaller than 100*100	
	"A dog" is smaller than "A mouse" and 9999+8888 is smaller than 100*100	
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	1 point
	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?	
	<pre>1 def calculate_storage(filesize): 2 block_size = 4096</pre>	
	# Use floor division to calculate how many blocks are fully occupied	
	<pre>4 full_blocks = filesize // block_size 5 #print('fb', full_blocks)</pre>	
	<pre># Use the modulo operator to check whether there's any remainder partial_block_remainder = filesize % block_size</pre>	
	#print('pb', partial_block_remainder) # Depending on whether there's a remainder or not, return	
	# the total number of bytes required to allocate enough blocks	
	<pre># to store your data. if partial_block_remainder > 0:</pre>	
	13 return block_size * (full_blocks + 1) 14 return block_size * (full_blocks)	
	15 16 print(calculate_storage(1)) # Should be 4096	
	17 print(calculate_storage(4096)) # Should be 4096 Run	
	18 print(calculate_storage(4097)) # Should be 8192 10 print(calculate_storage(6000)) # Should be 8192 Reset	

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