SECTION 22: ERRORS AND EXCEPTIONS HANDLING - 46 minutes, 6 parts

3/4 Comparison Operators

- -> comparison operators in Python
- -> comparing operators with a boolean value
- -> he is in the project ipynb file, with a table of operators
- -> zooming into this table and working through each of them
 - -> == <- a boolean which asks,
 "is this equal to this?"</pre>
 - ->!= <- if they are not equal, then the condition is True
 - -> <> <- this is the same as the previous one
 - -> >, < <- greater than and less than
 - -> is a greater than b, or a less than b?
 - -> numerical values
 - -> >=, <= <- these are the same as the previous operands but with equals signs involved

-> comparison operators

- -> he is giving examples of these different operators
- -> he is working his way through the operators in the table
- -> there are more common ways of doing this
- -> it's asking, for example, "is two greater than four" - rather than telling it this, it's asking a question as to if it is or not
- -> when you see examples of these in the code and you are reading through them
- -> reading through the table
- -> the comparison operators

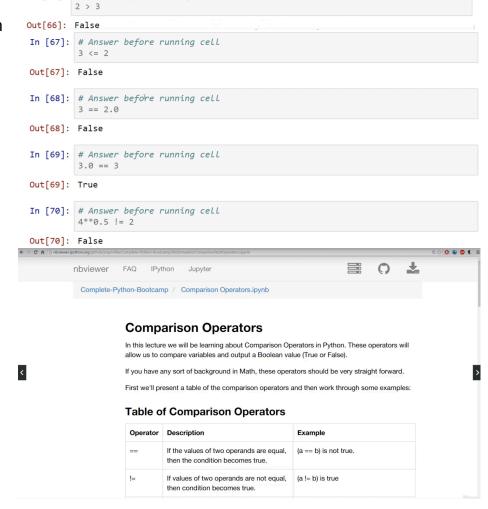
Booleans

For the following quiz questions, we will get a preview of comparison operators:

Operator	Description	Example
== ,	If the values of two operands are equal, then the condition becomes true.	(a == b) is not true.
!=	If values of two operands are not equal, then condition becomes true.	
<>	If values of two operands are not equal, then condition becomes true.	(a <> b) is true. This is similar to != operator.
>	the value of left operand is greater (a > b) is not true. an the value of right operand, then ondition becomes true.	
	If the value of left operand is less than the value of right operand, then condition becomes true.	(a < b) is true.
	>= If the value of left operand is greater than or equal to the value of right operand, then condition becomes true	$(a \ge b)$ is not true.
	If the value of left operand is less than or equal to the value of right operand, then condition becomes true.	

What will be the resulting Boolean of the following pieces of code (answer fist then check by typing it in!)

In [66]: # Answer before running cell



<>	If values of two operands are not equal, then condition becomes true.	(a <> b) is true. This is similar to != operator.
>	If the value of left operand is greater than the value of right operand, then condition becomes true.	(a > b) is not true.
<	If the value of left operand is less than the value of right operand, then condition becomes true.	(a < b) is true.
>=	If the value of left operand is greater than or equal to the value of right operand, then condition becomes true.	(a >= b) is not true.
<=	If the value of left operand is less than or equal to the value of right operand, then condition becomes true.	(a <= b) is true.

Let's now work through quick examples of each of these.