

# INFO 450 Fall 2020

Week 3

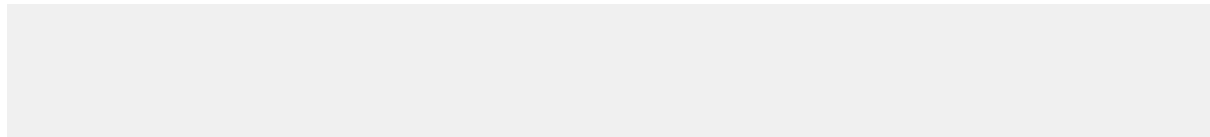
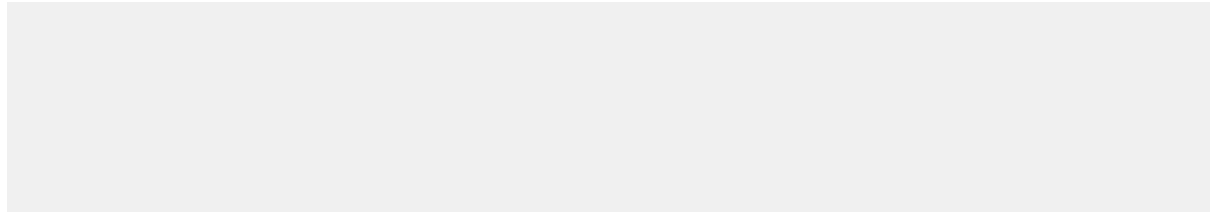
# Agenda

-

# `cars.py`

Example code and output to talk about equality, conditions, etc.

All car manufacturers should be printed 'title' case, but BMW should be all caps.

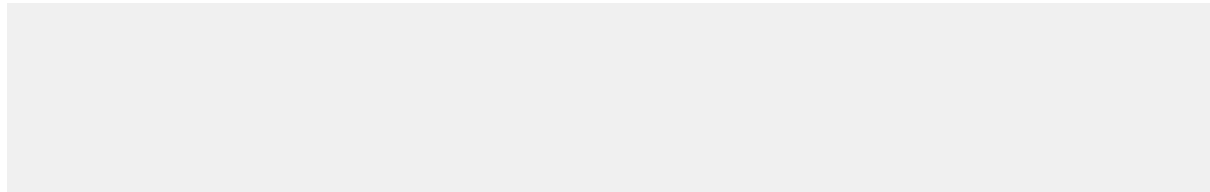


Note: Using print, as those outputs aren't "logging" type statements.

# Boolean Expressions

Whether a statement is True or False

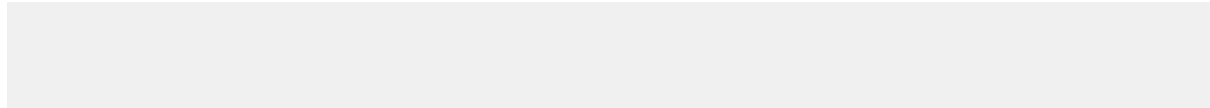
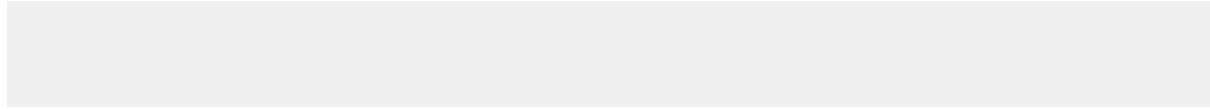
Used to track conditions/conditionals



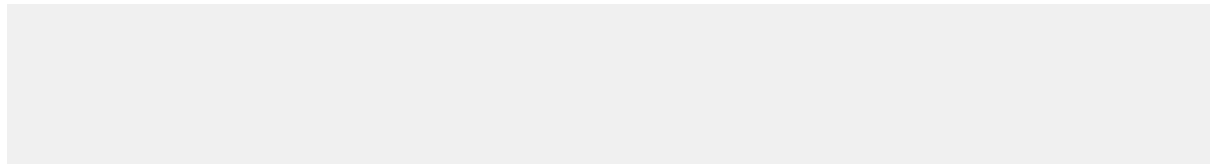
# Conditionals

"At the heart of every statement is an expression that can be evaluated as True or False and is called a 'conditional test'"

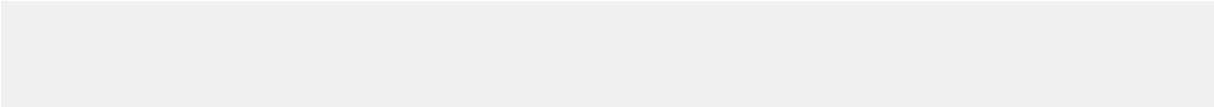
Checking for equality:



Testing strings is 'case sensitive'



# Checking for Inequality

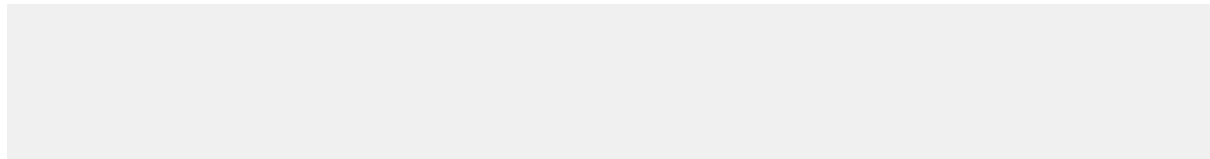
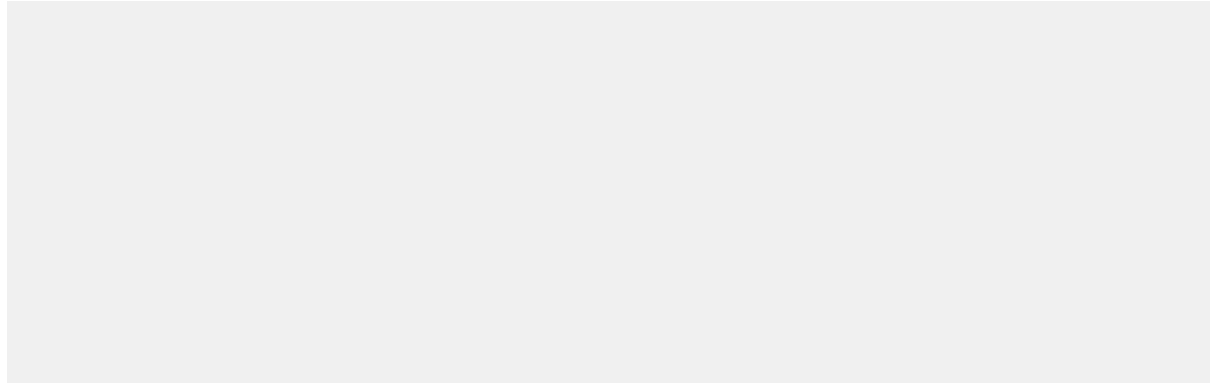


! creates the 'inverse' of the resulting comparison

True becomes False

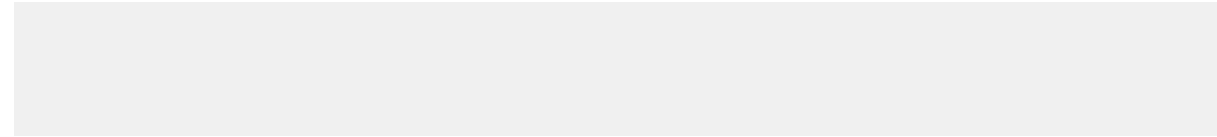
False becomes True

# Numerical Comparisons



# Multiple Conditions

'and' 'or'



## AND

	True	False
	False	False

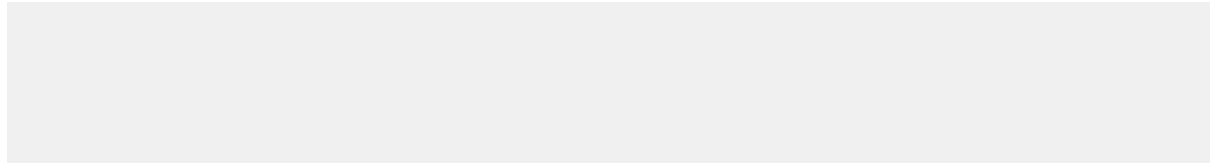
## OR

	True	True
	True	False

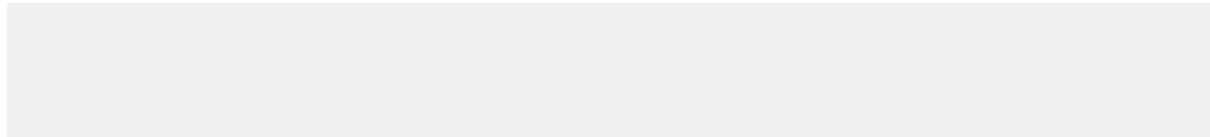


# Checking lists

Is it IN the list?

A light gray rectangular box, likely representing a list or a set of data to be checked.

Is it NOT IN the list?

A light gray rectangular box, likely representing a list or a set of data to be checked.

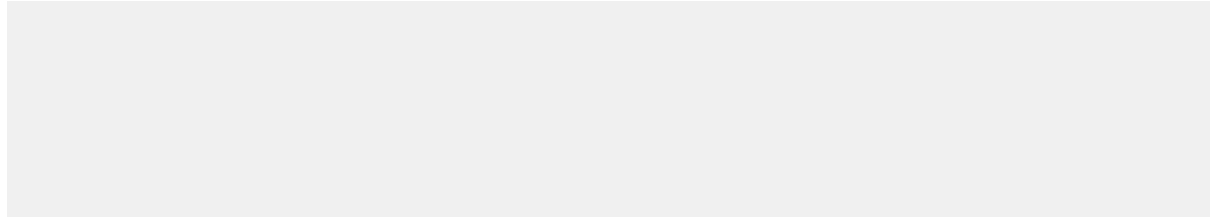
# if Statements

'one test and one action, simplest form'

Code sets the age variable, checks it against 18, and then decides to execute the command.

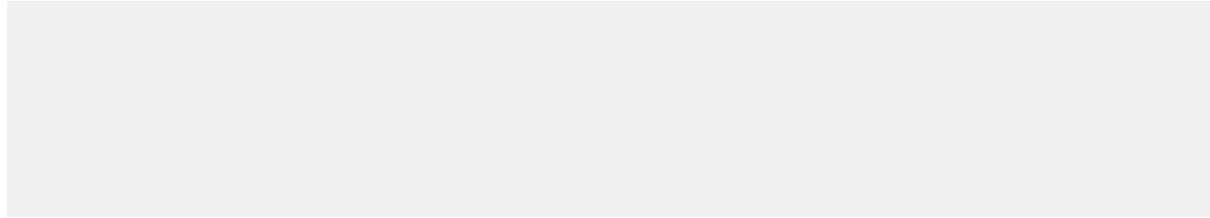
# if-else Statements

if statements help execute an action when conditions are met, but usually programs need to do something else if they aren't met



# if-elif-else chain

If we need more than one or two 'branches' in the code, we can add more conditional checks



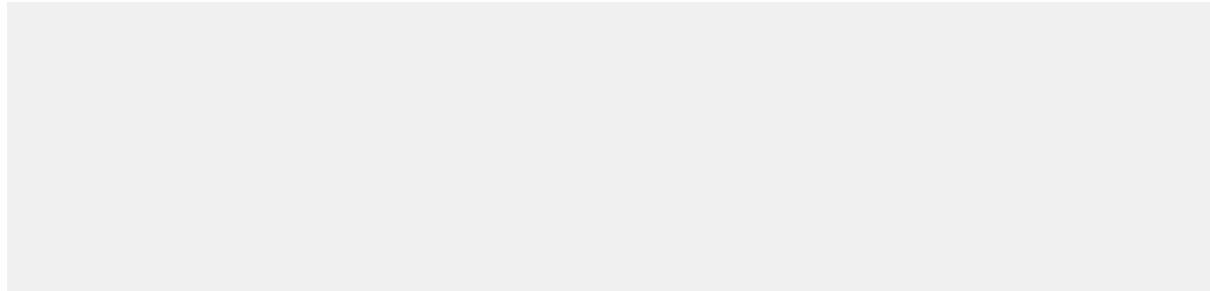
Supports 0 or more 'elif' statements

Once one scenario is reached as True, the rest are ignored.

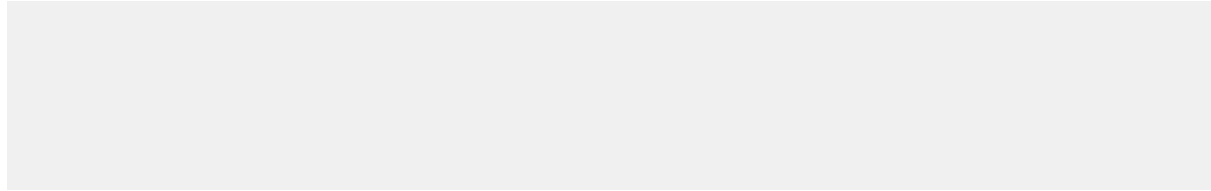
Else block can be omitted

# Testing Multiple Conditions

Sometimes you want more than one action to happen based on events.

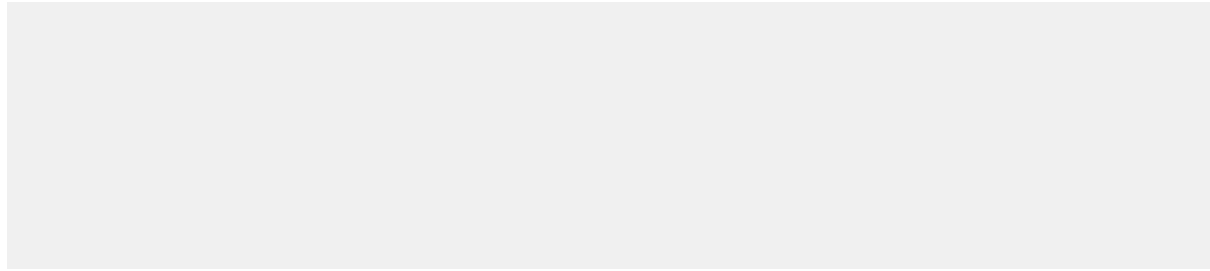


# Checking if a list is empty or not

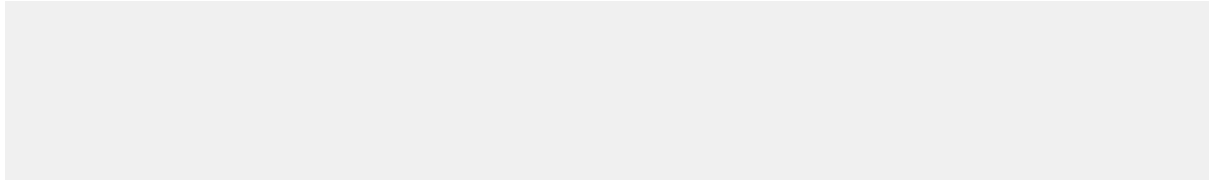


# Using multiple lists

Check our pizza order against an available list of toppings.



# Styles





# Code practice from book:

Page 89



