

SECTION 6: METHODS AND FUNCTIONS, 2 hours 54 mins, 30 parts

- 4/29 Basics of Python Functions

- -> functions <- the name of the JN notebook (this includes tuple unpacking)
- in the .ipynb file
 - `def say_hello(name='Jose'):` <- name is the argument, and the default name is Jose -> without a default then when the function is called without the argument, it will return an error message
 - about
 - anything inside this indentation is called in the code
 - -> if you put a lot of different print statements in this and then call the function -> all of them get printed out on separate lines
 - -> to call the function its `say_hello()` not `say_hello <-` or else it will just return that this thing is a function
 - `print(f'Hello {name}')` <- this is a string literal
 - another example
 - `def add_num(num1, num2):`
 - `return num1, num2` <- this prints out the result when the function is called, and the result of that can be set equal to a variable (in comparison to using `print`)
 - -> if you used `print` and not `return` then you couldn't set that function call equal to a variable (it's a `NoneType`), the value isn't returned - something is just printed out
 - you can use a `print` and a `return` statement when you define the function
 - -> then when its called the result is printed and you can set the function call equal to a variable
 - if you need to check the type of the input of the data into the function
 - -> e.g if you define a function which adds two numbers together -> there is a case where strings are put as arguments into the function instead of numbers
 - -> you need to check the type of the data before returning the result (in this case - adding numbers not strings)