Bootcamp

Session 4

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Object Oriented Programming

- Programming concept where objects can contain data and code

- Most of the more commonly used programming languages out there are Object Oriented

    - Includes C++, JavaScript, Java, C# (.Net), and Python

- In Python, Methods are the functions that are built into objects

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Object Oriented Programming

- We've already been using methods

  - .pop(), .sort()

- No shortage of Methods available to use in Python

  - Libraries add even more

Object Oriented Programming

How do we get more information on Methods and Functions

- In Jupyter, hit tab after the object to see available methods

  Hit shift-tab to get detailed information

- Run the help function

  help(function)

- Go to Docs.python.org

- Google it

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Functions

You can create your own functions in Python

- Why?

  - Create repeatable blocks of code

  - Make a change once, instead of in multiple places

  - Foundational leap in your programming skills

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Creating a Function

Snake case name for your function

Empty parenthesis or name of input variable enclosed in parenthesis, followed by colon

Doc string enclosed in triple quotes explains what the function does as well as the required/optional inputs and outputs

def function_name(input):

‘'' this function does this'''

some code

some more code

return(output)

def indicates you're defining a new function

The code your function will run, indented

Optional return statement. When running the function, the output is the variable shown here

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