Python 101: Introduction to Python Workshop

Prerequisites:
Please make sure you have viewed and understand the video below. Please have installed Pycharm, VSCode or your IDE of choice
https://www.youtube.com/watch?time_continue=1&v=rfscVS0vtbw&feature=emb_logo

Structure: Each morning will cover the core material, including student participation and practice. The afternoons are available for those wanting more practice, extra help and learning extensions. .

Course Outline:
Morning Session 1:
    Orientation and Class Expectations
    Getting Started - Core Python Syntax Review
    Sequences and Iteration
    Reading/writing to files
Afternoon Session 1:
    Practice in manipulating data: Manipulating finance data

Morning Session 2:
    String Formatting and Manipulation
    Dictionaries and Sets
Afternoon Session 2:
    Investigations with COVID-19 research papers

Morning Session 3:
    Exception Handling with Python
    Reading/writing to database (SQLite for class)
    Unit testing introduction
Afternoon Session 3:
    Exceptions and taking exception: US Consumer finance complaints

Morning Session 4:
    Consuming REST API via Python
    OO -- Properties, Special methods
    Writing testable code
Afternoon Session 4:
    Consuming API data. Examining data from Github, Petfinder and many more