# 4.1 Intro to Programming for Data Analysts Directions

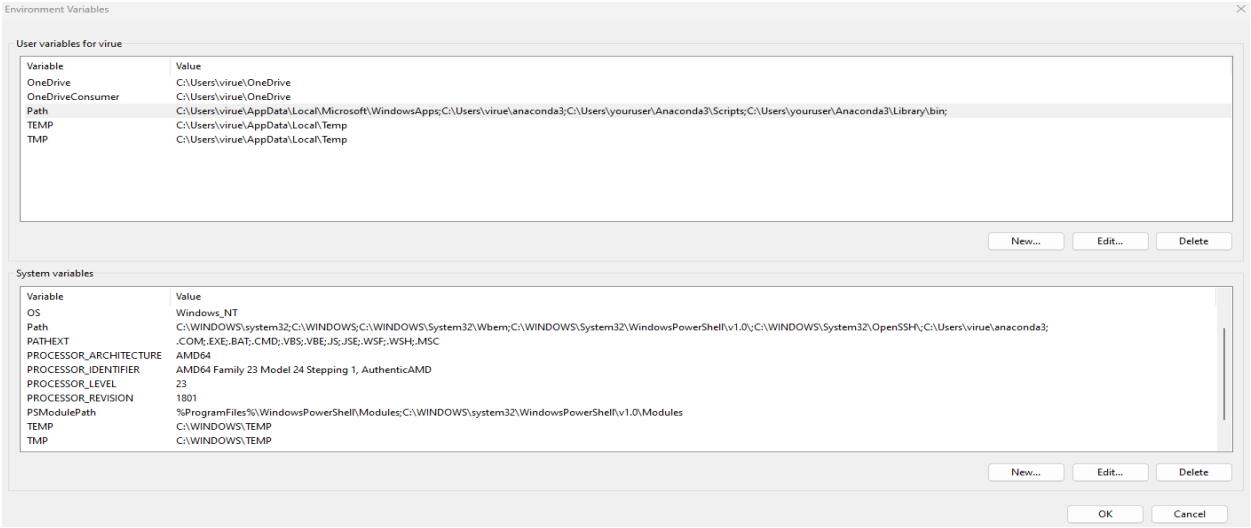
2. Python is popular because it can be combined with other programs. Codes give you more freedom. Python can manage much more rows, automate tasks, and programming is faster.

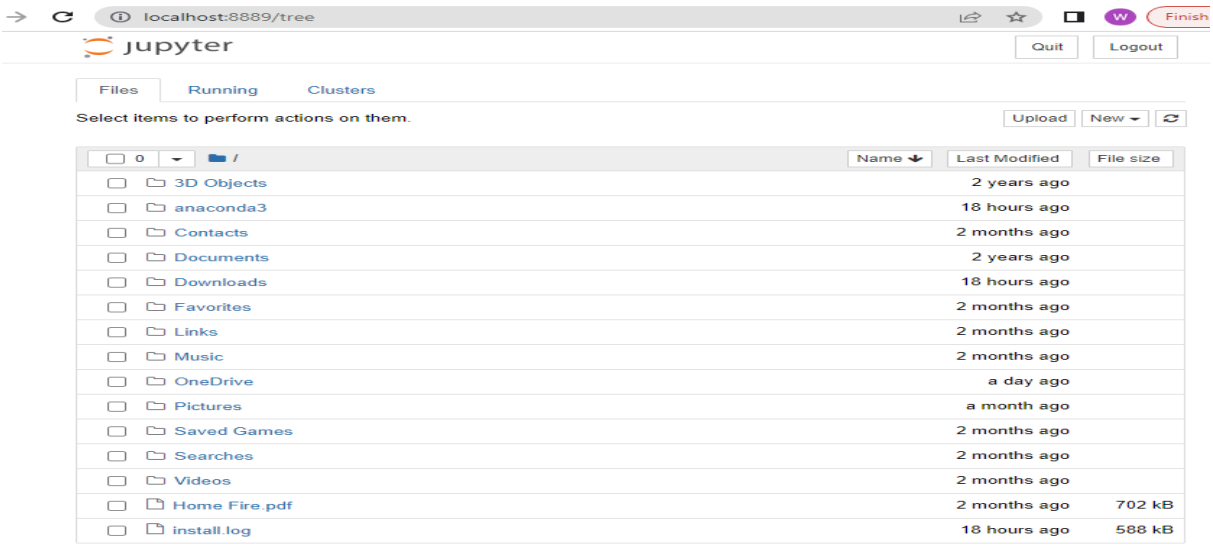
3. According to https://brainstation.io/career-guides/who-uses-python-today Some of the top companies that use Python are Uber, Goldman Sachs, PayPal, Netflix, and Google.

4. -Excel -An excellent option for small data sets and excel is a great choice for filtering.

-SQL- Is ideal to retrieve data from databases.

-Python- Anything over roughly 1 million rows it is best to use python.



1. Set up a document where you can write your answers to the following questions. You'll want to conduct some research online to help you develop your answers.
2. Write 2 to 3 sentences on why Python is so popular among data analysts.
3. After doing some research, name the 5 top companies in the world that use Python (either as a tool for software engineering or for analytics).
4. For each of the following scenarios, explain what tool you would use and why
    - You have a small data set that needs some quick tweaks and minor analysis. You'll need to filter some columns and make a quick chart.
    - You need to retrieve some portion of data from a very large database.
    - You have a data set with 15,000,000 rows and 350 columns that needs to be sorted and prepared for a more advanced analysis.
5. Download Anaconda.
6. Set up the environment variables on your computer and copy them into your document together with your answers to steps 2 through 4.

    NOTE:
    Mac users can skip this step, as Anaconda will install itself to the correct environment variables automatically.
7. Launch Jupyter.
8. Take a screenshot of the page that opens in your browser upon launching Jupyter.
9. Copy-paste this screenshot into your document, export your document as a PDF, then submit the PDF here for your Tutor to review.