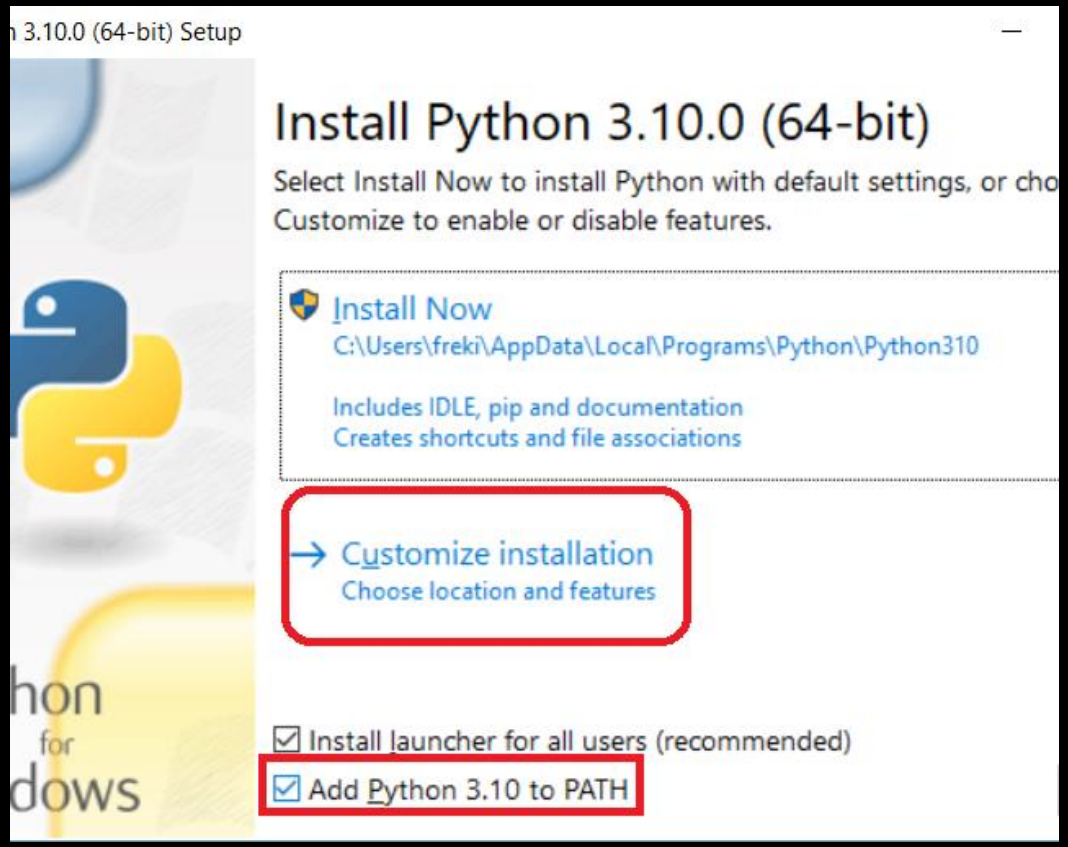
Installation Guide for MA321

Last updated in October 2021

Install Python

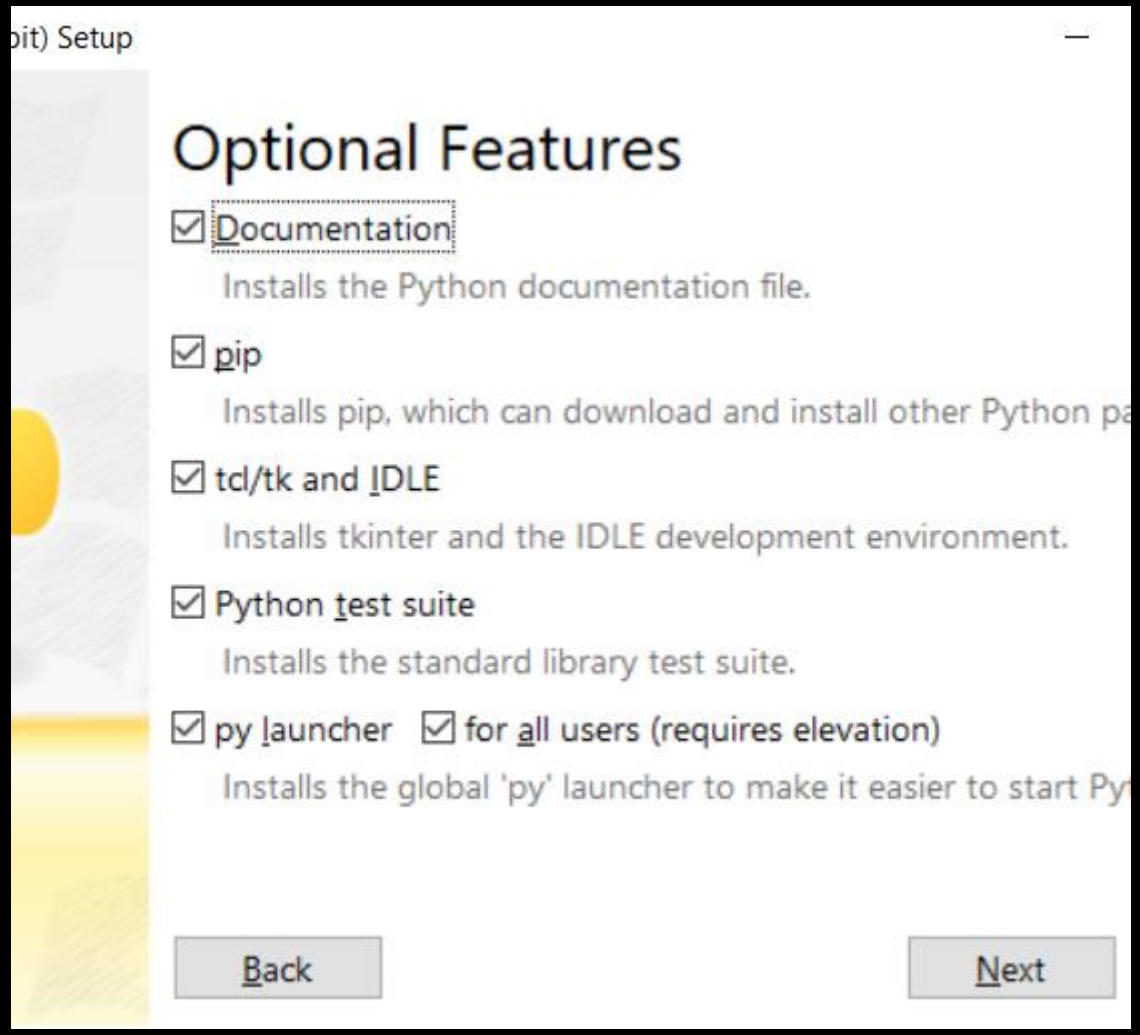
1. Go to https://www.python.org/downloads/
2. Download and run the installer for the newest Python (current version 3.10.0)*
3. Make sure you check the option **Add Python to PATH**
4. Proceed with **Customize installation**

**Note that the installer for macOS is different from Windows*



Install Python

5. Proceed with all options checked under Optional Features

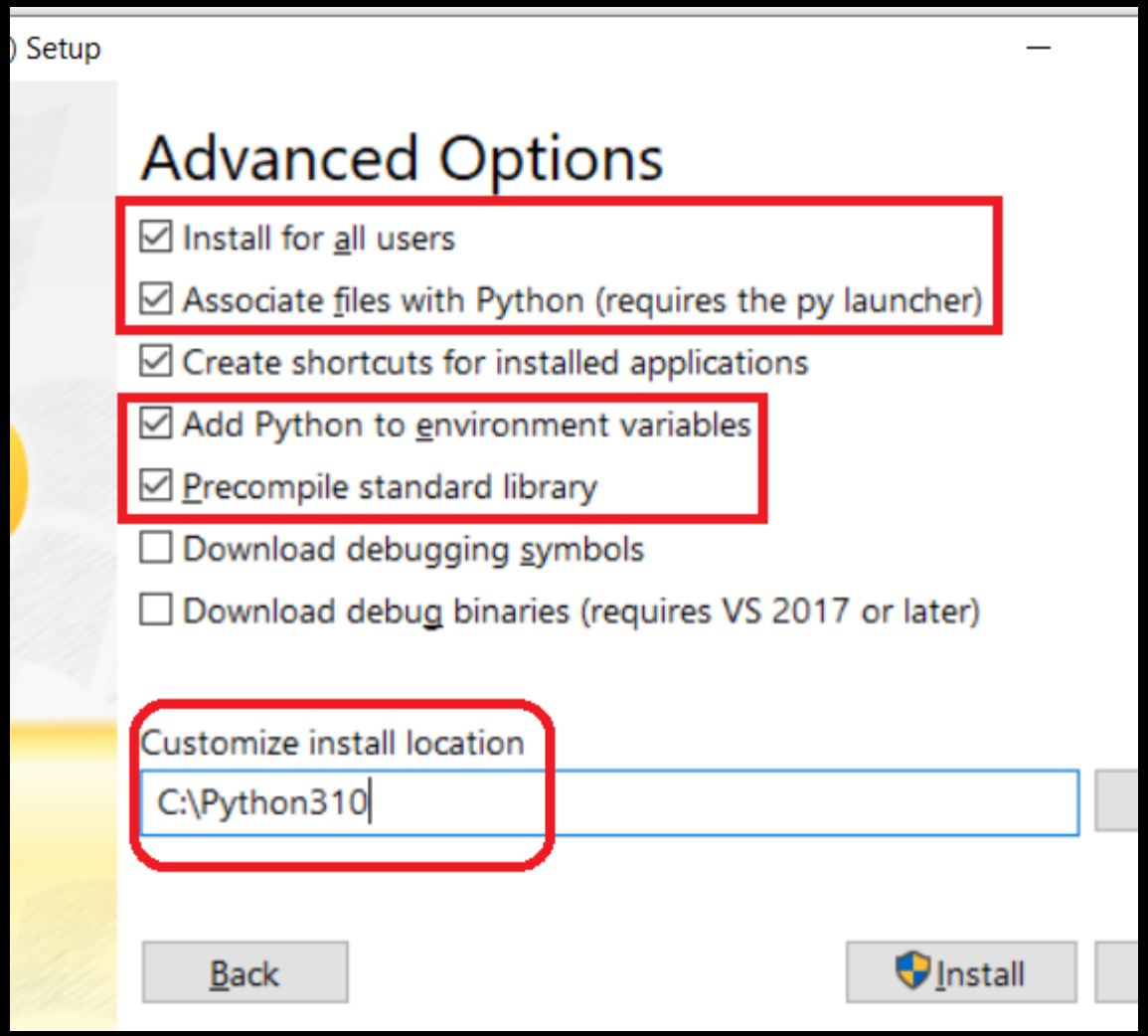


Install Python

6. Under Advanced Options, make sure the following options are checked:
   - **Install for all users**
   - **Associate files with Python**
   - **Add Python to environment variables**
   - **Precompile standard library**

7. You may customize the install location

8. Click on the **Install** button



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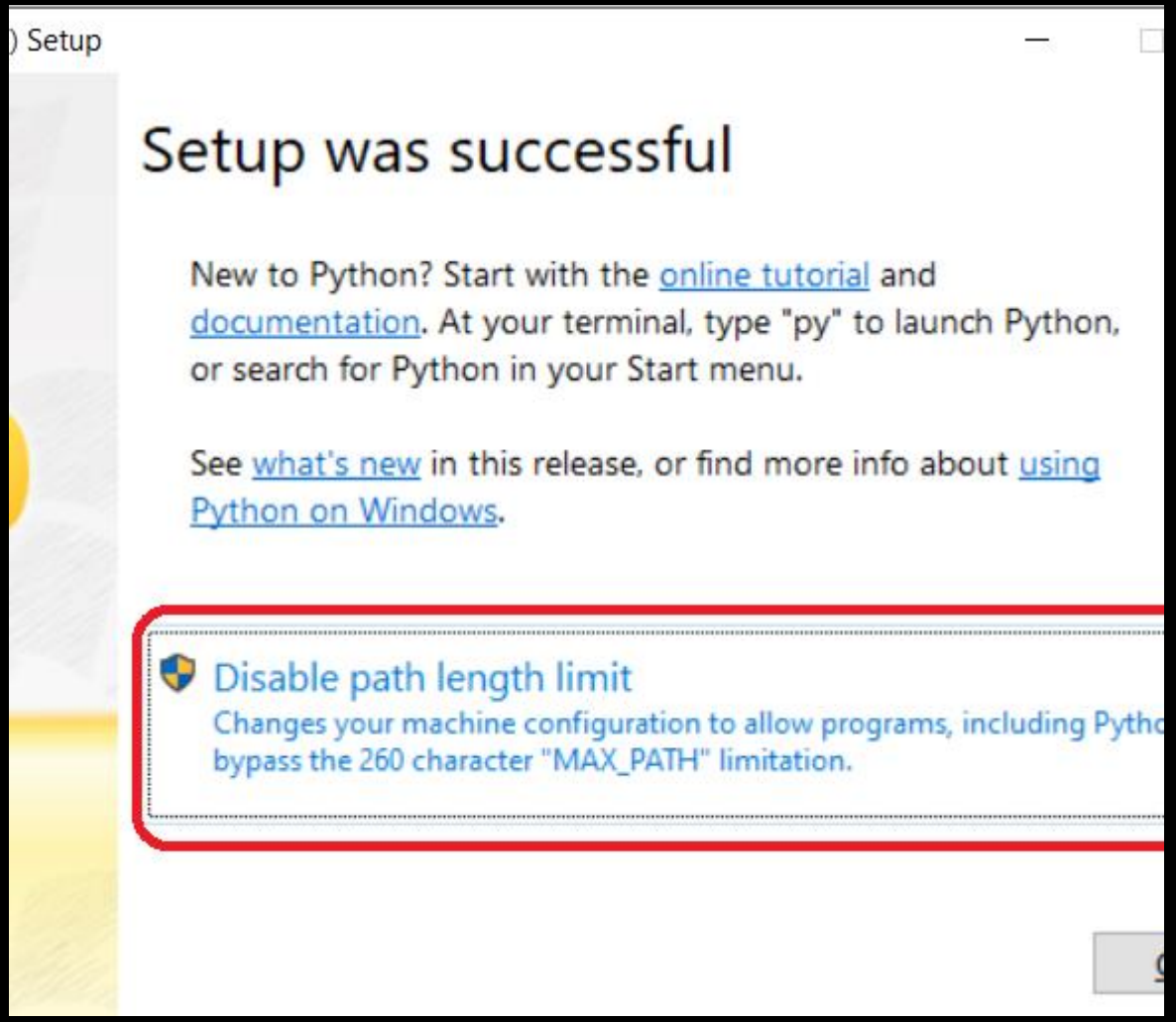
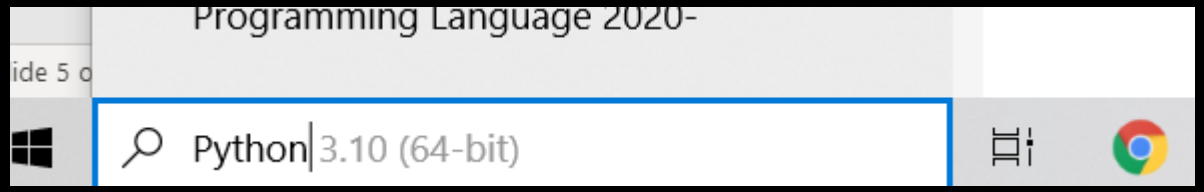
9. Click on **Disable path length limit** if you see this option
10. You need to **allow** installer to make changes to your device in the installation process



Verify Python has been installed

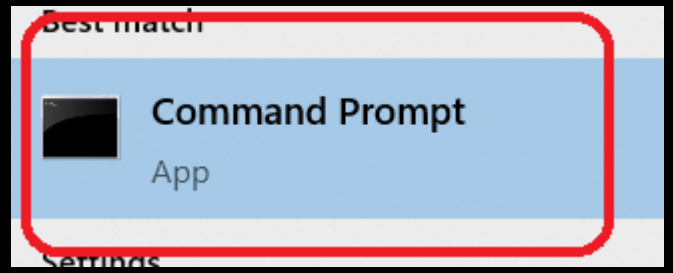
Type **Python** in the search box next to the window icon at the bottom left corner, you should be able to see the **Python 3.10 App**, including

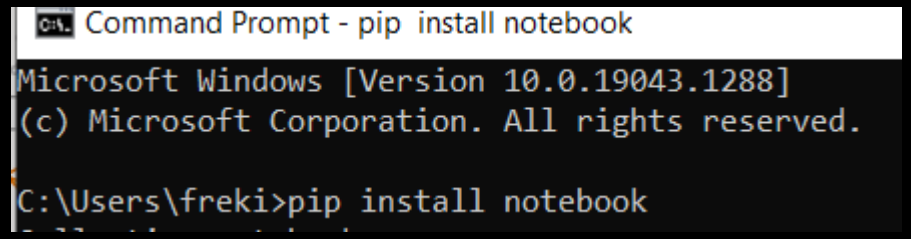
- **IDLE**
- **Manuals**
- **Module Docs**



Install Jupyter Notebook

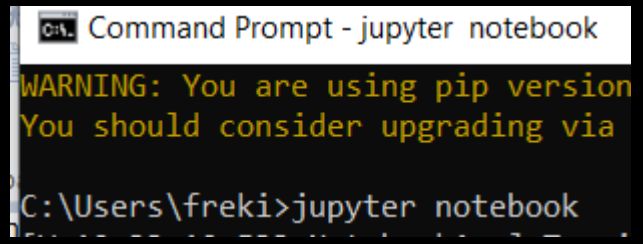
1. Type **Command Prompt** in the search box next to the window icon and run the app
2. In the command prompt window, type **pip install notebook**, then press **Enter**

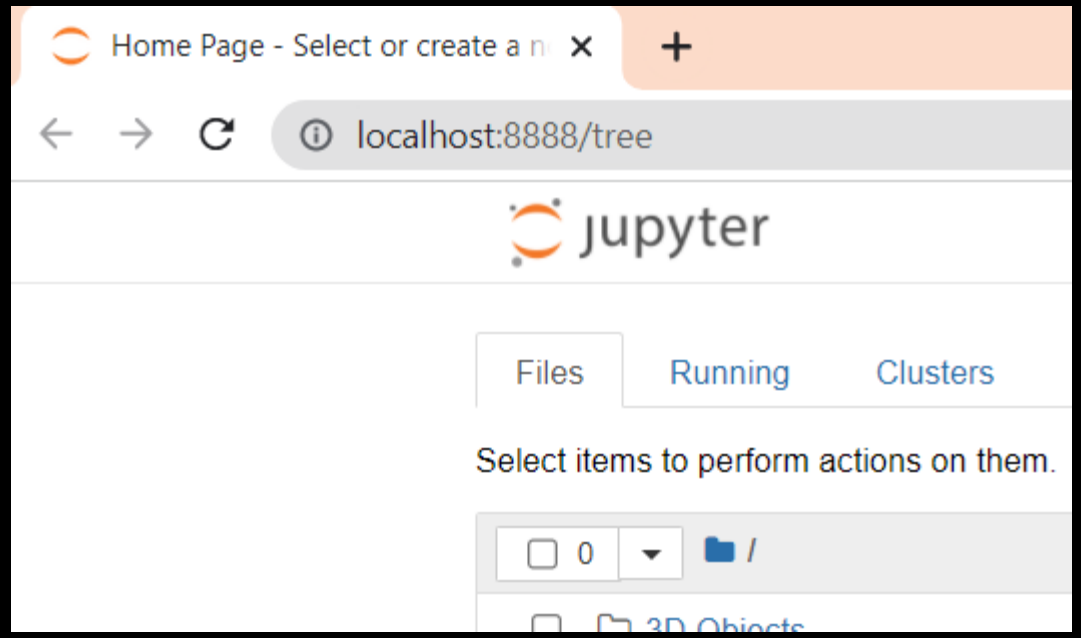


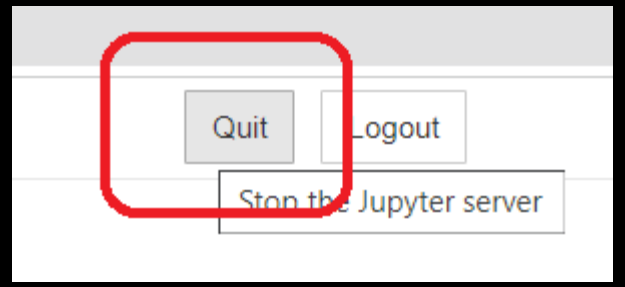


Run Jupyter Notebook

1. Open and stay in **command prompt window**
2. Type **jupyter notebook**, then press **Enter**
3. You should be able to see A jupyter page opened in your default browser
4. Now you may create **.ipynb** file for coding with python (refer to next slide for details)
5. To close jupyter notebook, click on the **Quit** button on the top right corner, then close the browser and the command prompt window







Create a File for Coding

1. In the browser with jupyter notebook open, click on the drop-down list button **New** on the top right corner, then select **Python 3**

2. Now you may code on the notebook page opened in the browser, the file type will be **.ipynb**