WSL 2 setup:

1. Install Windows Terminal (recommended)
   a. Very useful with WSL 2, especially once you start using multiple terminals with ROS.
   b. [Windows Terminal installation | Microsoft Learn](https://learn.microsoft.com/en-us/windows/terminal/install)
      i. https://learn.microsoft.com/en-us/windows/terminal/install
2. Install and setup WSL 2
   a. https://linuxsimply.com/linux-basics/os-installation/wsl/ubuntu-on-wsl2/
      i. Choose Ubuntu 22.04
3. Install ROS 2 Humble Desktop distro
   a. https://docs.ros.org/en/humble/Installation/Ubuntu-Install-Debians.html
4. Enable GUIs:
   a. After installing WSL 2
      i. Go to the **Windows Start menu** and type "**turn on Windows features**".
      ii. Secondly, select "**Windows Subsystem for Linux**" and "**Virtual Machine Platform**"
      iii. Finally, **click OK and restart your PC**.
   b. You might need run **command prompt** and type the following commands to update wsl so the GUI update works
      i. wsl --update
      ii. wsl --shutdown
      iii. wsl
   c. Test if GUIs work
      i. Get the x11 apps and see if they work with the following two commands
         1. sudo apt install x11-apps -y
         2. xcalc
      ii. test some basic Gazebo sims if you want
         1. https://gazebosim.org/docs/fortress/install_ubuntu
            a. This installs fortress version of gazebo which works with ros 2 humble distribution
            b. https://docs.ros.org/en/humble/Tutorials/Advanced/Simulators/Gazebo/Gazebo.html