Lab #1 — Windows Instructions

1 Introduction

Install WSL (Windows Subsystem for Linux)

1. Open windows PowerShell **as an administrator** by search
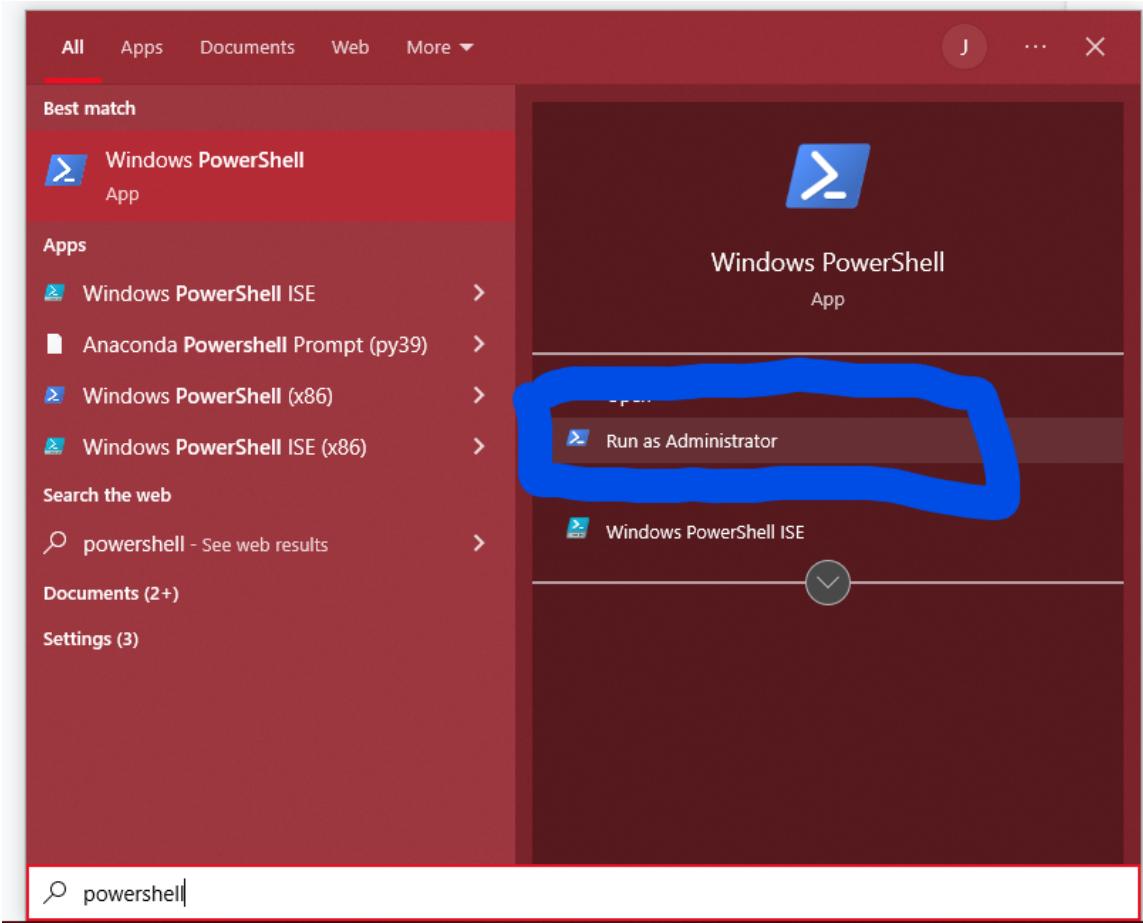
Figure 1: Installing WSL.

2. Setup WSL with

```
wsl.exe --install
```

3. Opening WSL Ubuntu on Windows

   (a) Once installed and after doing all of its updates (likely need a reboot), in the Microsoft App Store, search for "ubuntu on windows" and open it. (note possibly it might just be called "Ubuntu")
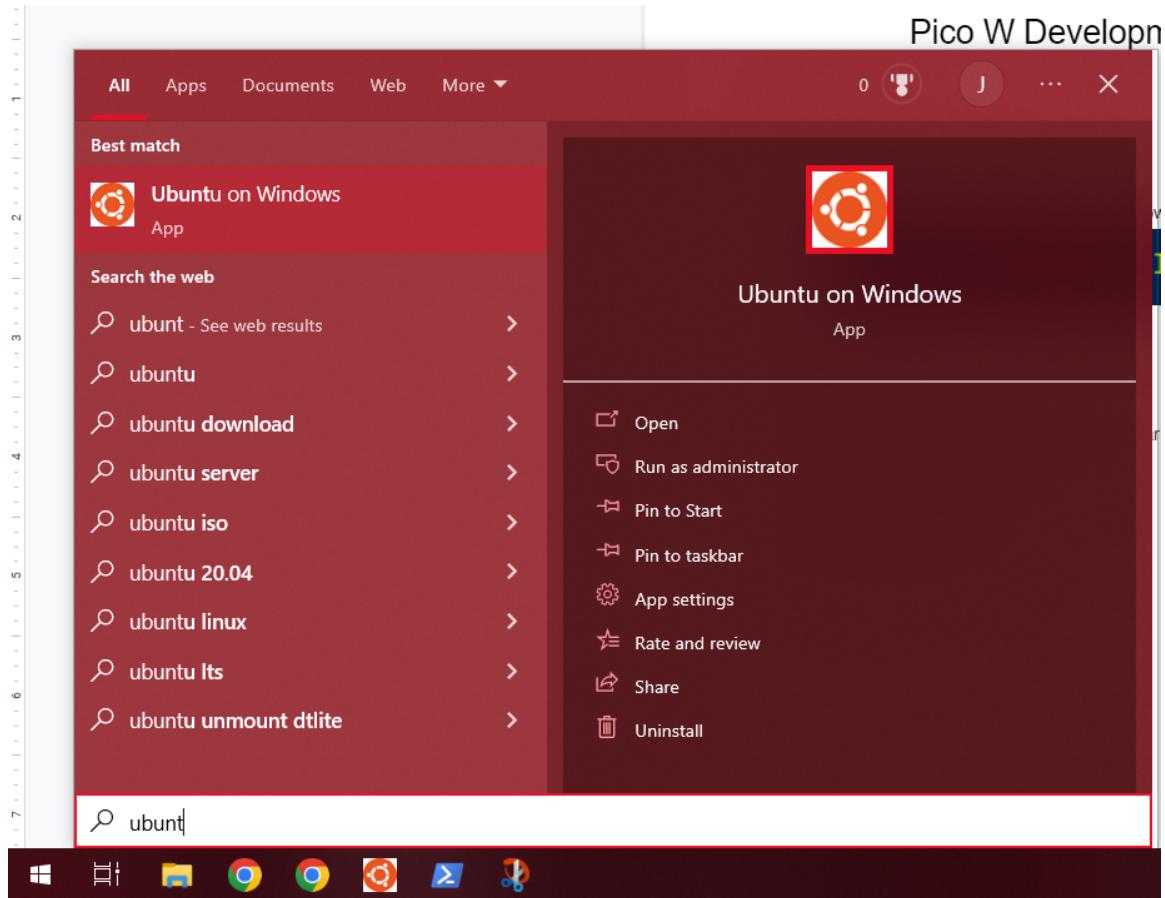
Figure 2: Finding Ubuntu.

(b) **NOTE**: after installing in the powershell window it will ask you to make a username and password. When you enter the password it will appear that you are not typing BUT YOU ARE. (this is a security feature of Ubuntu).

4. Installing WinUSB Driver

(a) Install Zadig and use it to install WinUSB driver `https://zadig.akeo.ie/`

(b) Note to get this step to work you will have to connect the Pi Pico to your laptop using the USB cable
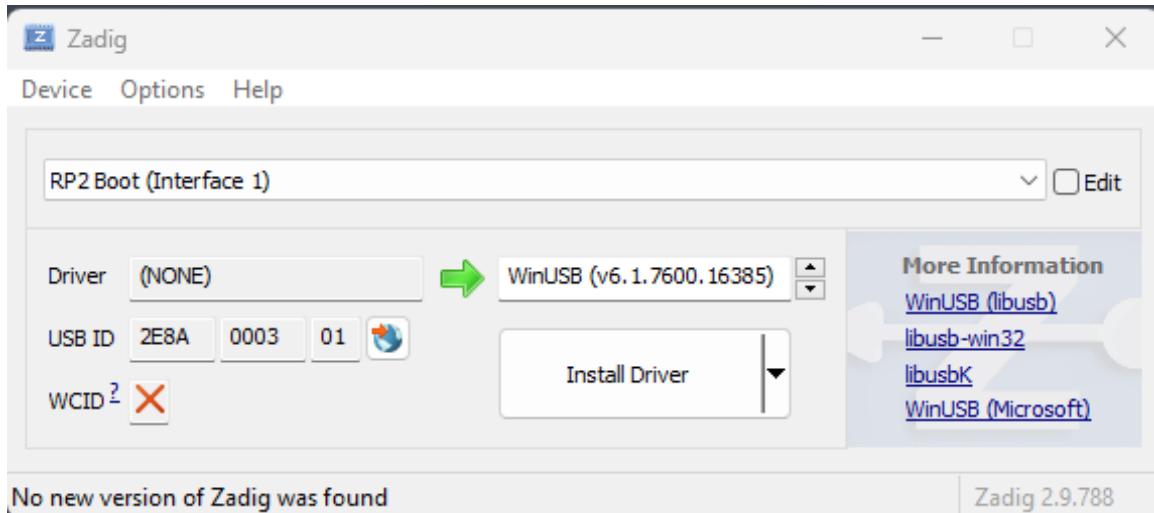
Figure 3: Installing USB driver with zadig.

5. Installing GCC C Compiler

    (a) Do this in an Ubuntu for Windows terminal

    (b) Install GCC using the following two commands

    ```
    sudo apt update
    sudo apt install build-essential
    ```

    (c) Verify installation by running the following command

    ```
    gcc --version
    ```

6. Installing VS Code

    (a) Either Search for VS Code in the Microsoft Store and install
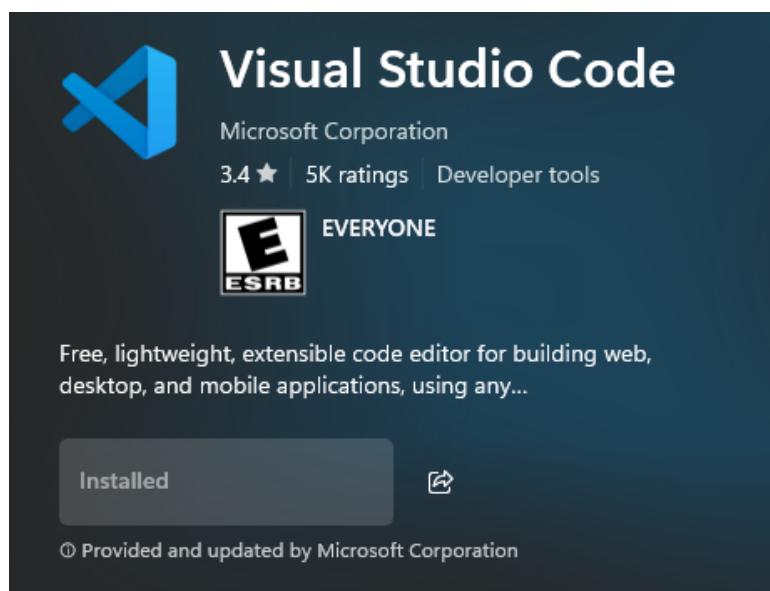
Figure 4: Installing VS Code.

(b) *or* Download and install VS Code from `http://code.visualstudio.com/Download`

7. Installing Putty

(a) Search for putty in the Microsoft Store and install

Figure 5: Installing PuTTY serial console software.