Internal Terminal Commands

These commands are run after you have connected to the Pi (via SSH, RDP, or directly).

1. Install Python & Tools

sudo apt update

sudo apt install python3 -y

sudo apt install idle -y

sudo apt install python3-venv -y

2. Create & Activate Virtual Environment

Create environment

python3 -m venv myenv

Activate environment

source myenv/bin/activate

3. Install Required Python Libraries

pip install adafruit-blinka adafruit-circuitpython-ads1x15

pip install RPi.GPIO

4. Enable I²C on Raspberry Pi

sudo raspi-config

- Go to: **Interface Options → I2C → Enable → Finish**
- Then reboot:

sudo reboot

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5. Check I²C Devices

sudo apt install -y i2c-tools

i2cdetect -y 1

The ADS1115 should be detected at address 0x48.

6. Organize Your Python File

- Create your Python file inside the environment folder:

nano mycode.py

(or use any editor).

7. Run Python File Inside Environment

Activate environment

source myenv/bin/activate

Go to project folder

cd /home/pi/myenv

Run your script

python mycode.py

8. Edit Code if Needed

nano mycode.py

Save changes, then re-run with:

python mycode.py