



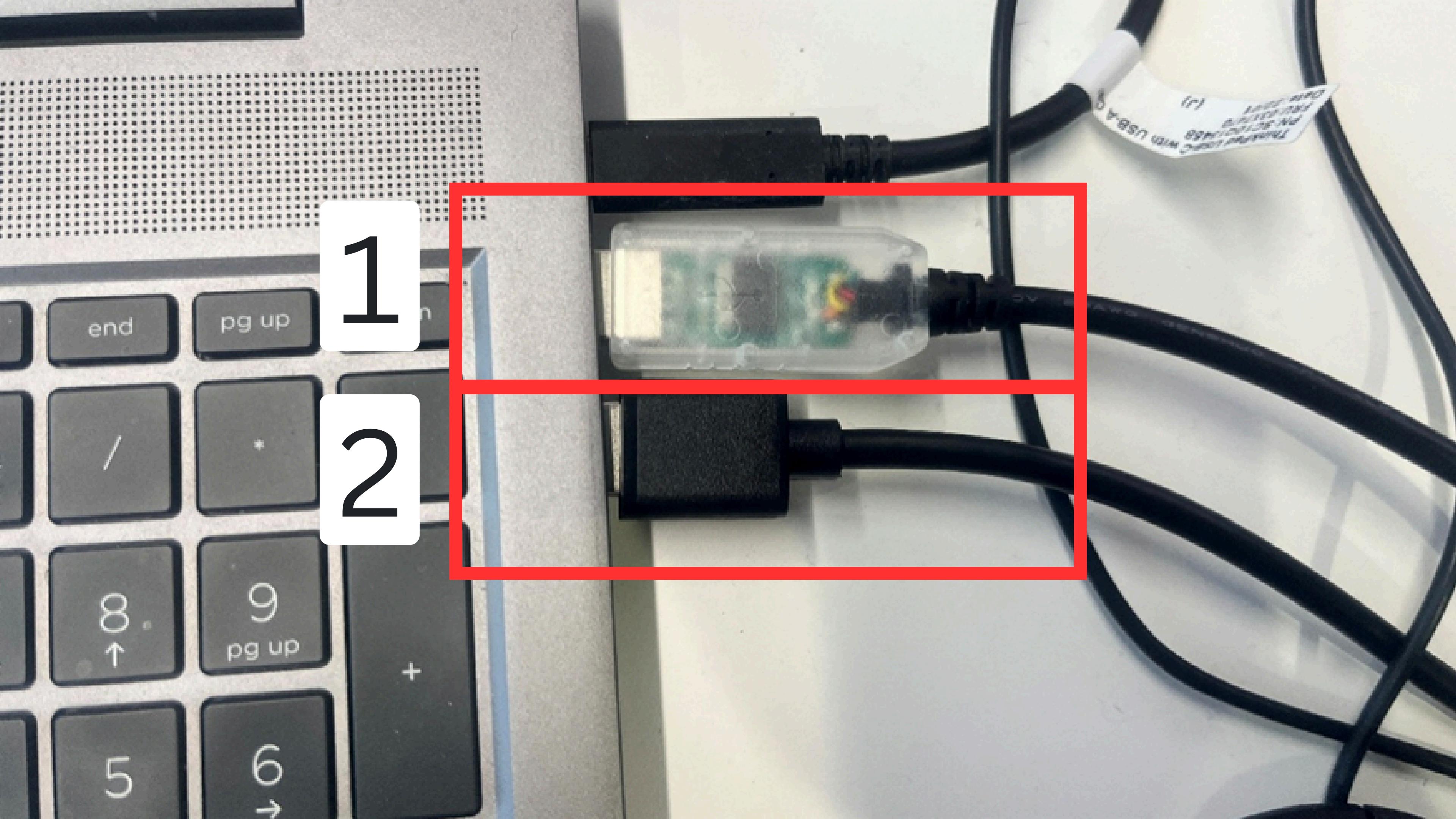
1

2

3



(7)  
10000000  
00000000  
00000000  
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00000000  
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00000000







### Local Python 3 • Thonny's Python

MicroPython (RP2040) • Pyboard Virtual Comm Port in FS Mode @ COM12

MicroPython (RP2040) • ST-Link VCP Ctrl @ COM11

MicroPython (ESP32) • Pyboard Virtual Comm Port in FS Mode @ COM12

MicroPython (ESP32) • ST-Link VCP Ctrl @ COM11

MicroPython (ESP32) • USB Serial Port @ COM9

MicroPython (ESP8266) • Pyboard Virtual Comm Port in FS Mode @ COM12

MicroPython (ESP8266) • ST-Link VCP Ctrl @ COM11

MicroPython (ESP8266) • USB Serial Port @ COM9

MicroPython (generic) • Pyboard Virtual Comm Port in FS Mode @ COM12

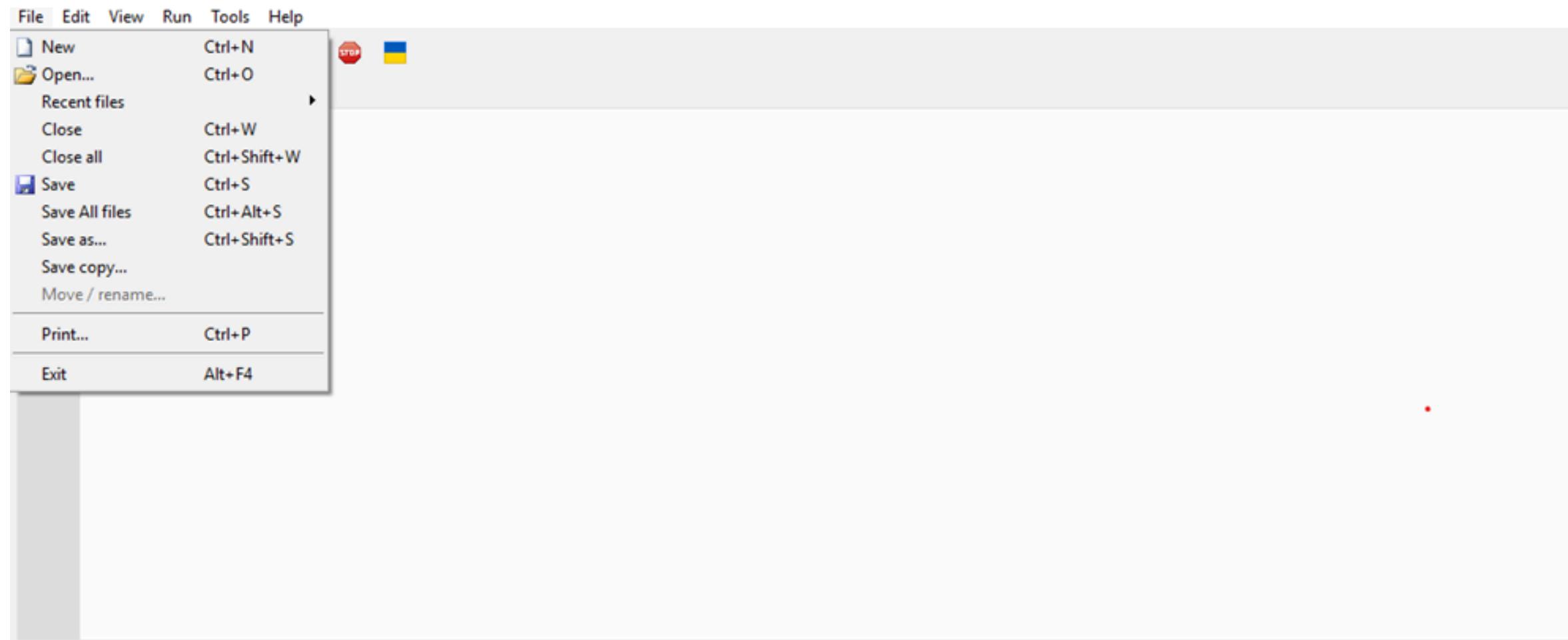
✓ MicroPython (generic) • ST-Link VCP Ctrl @ COM11

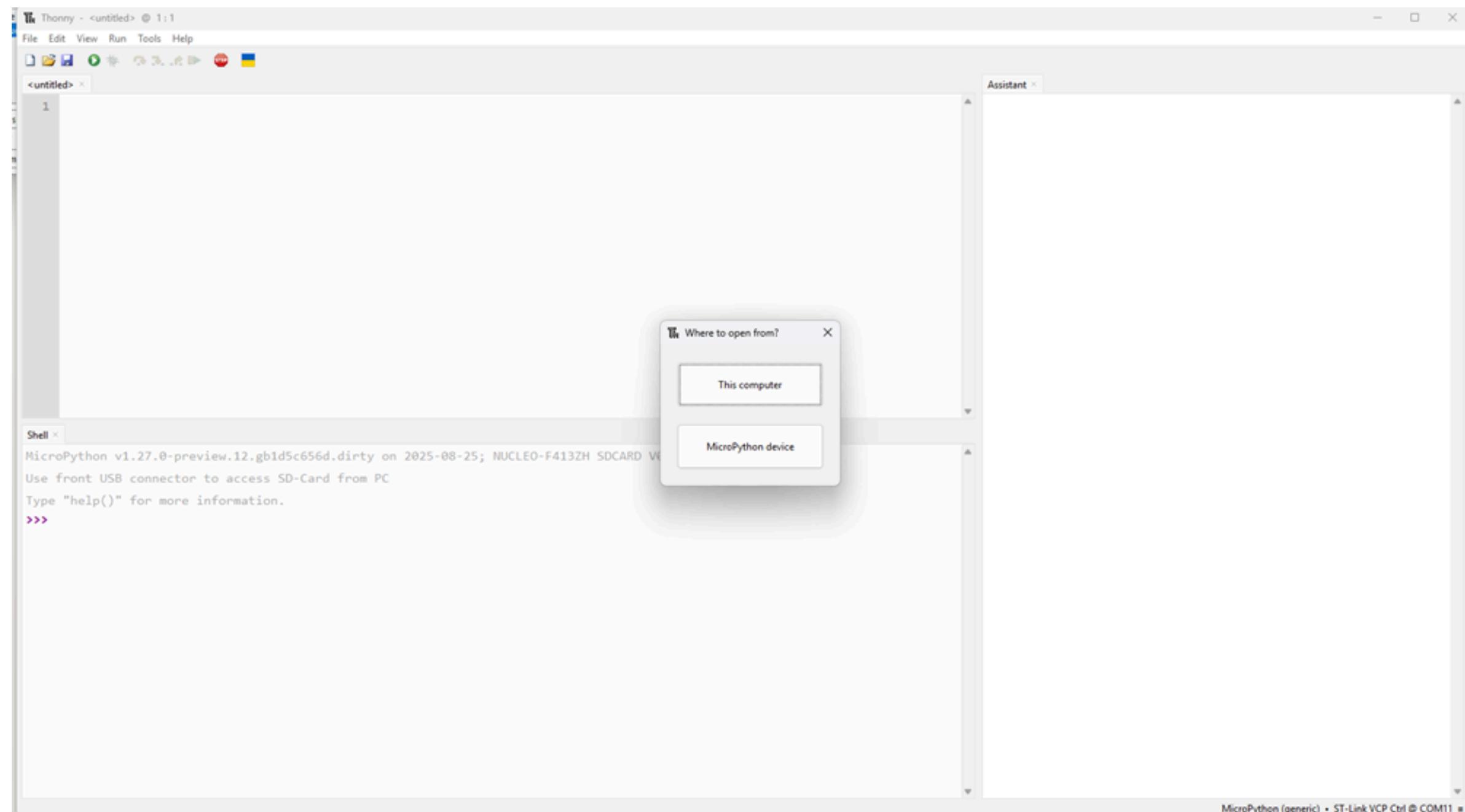
MicroPython (generic) • USB Serial Port @ COM9

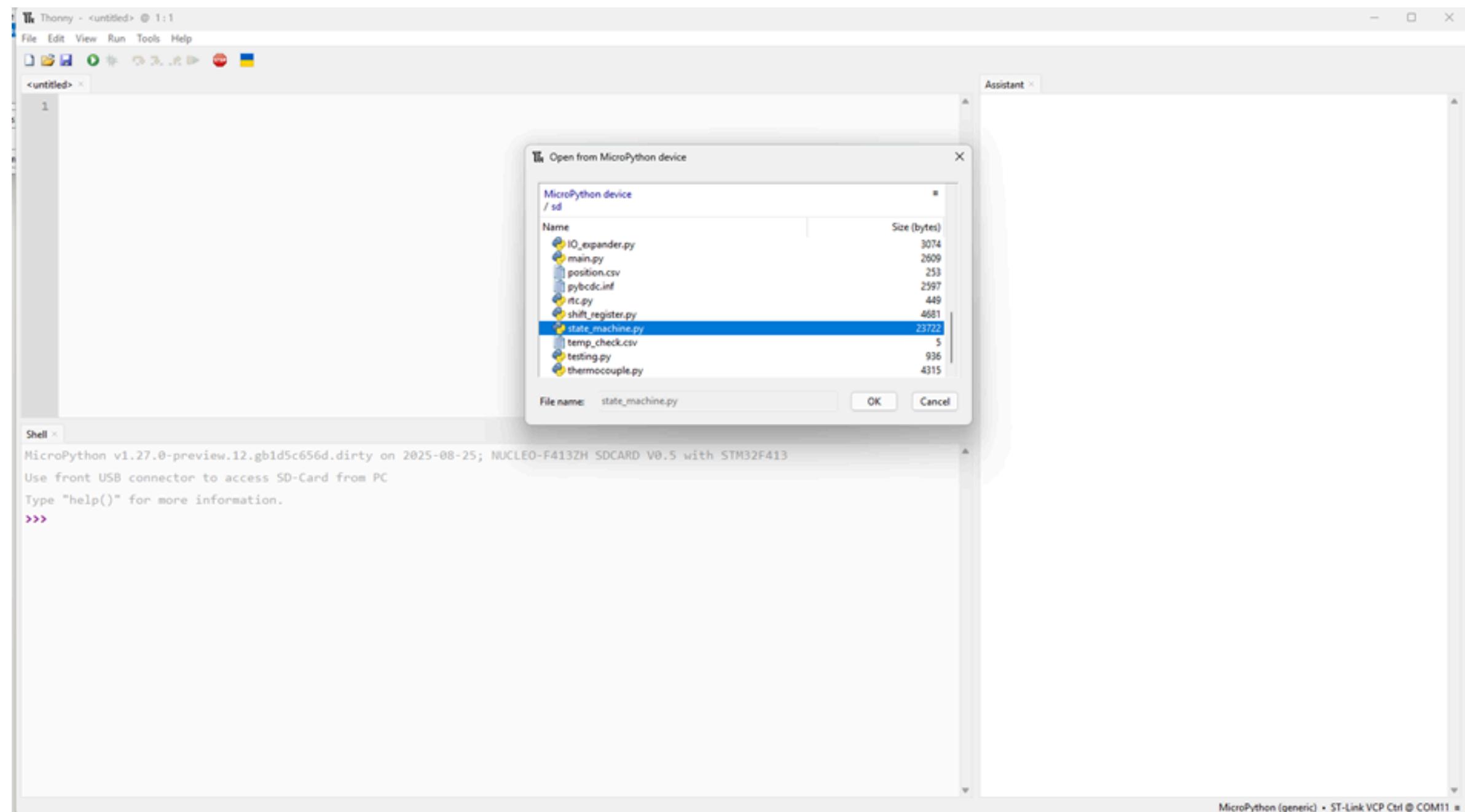
CircuitPython (generic) • USB Serial Port @ COM9

Configure interpreter...

MicroPython (generic) • ST-Link VCP Ctrl @ COM11 ≡







Thonny - MicroPython device z:/sd/state\_machine.py @ 621:1

File Edit View Run Tools Help

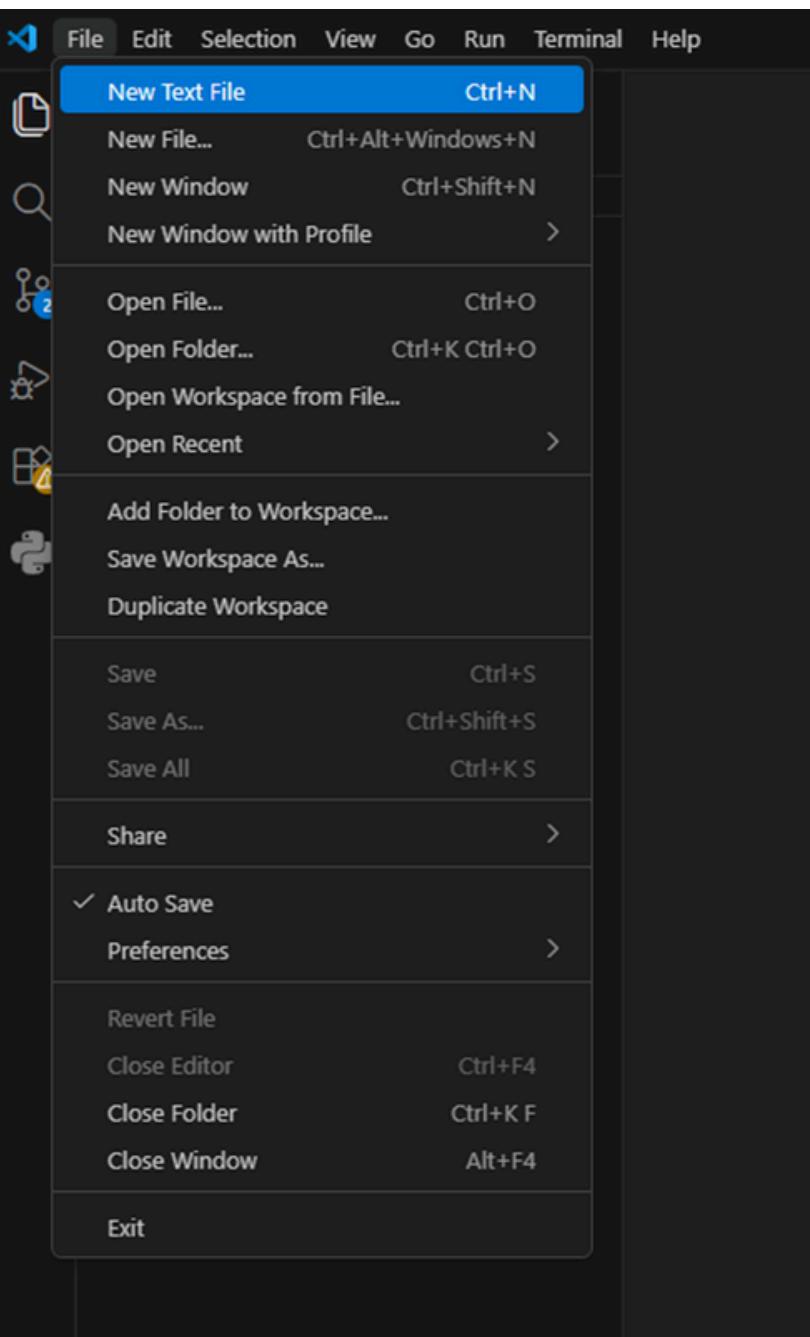
Untitled < [state\_machine.py] Assistant

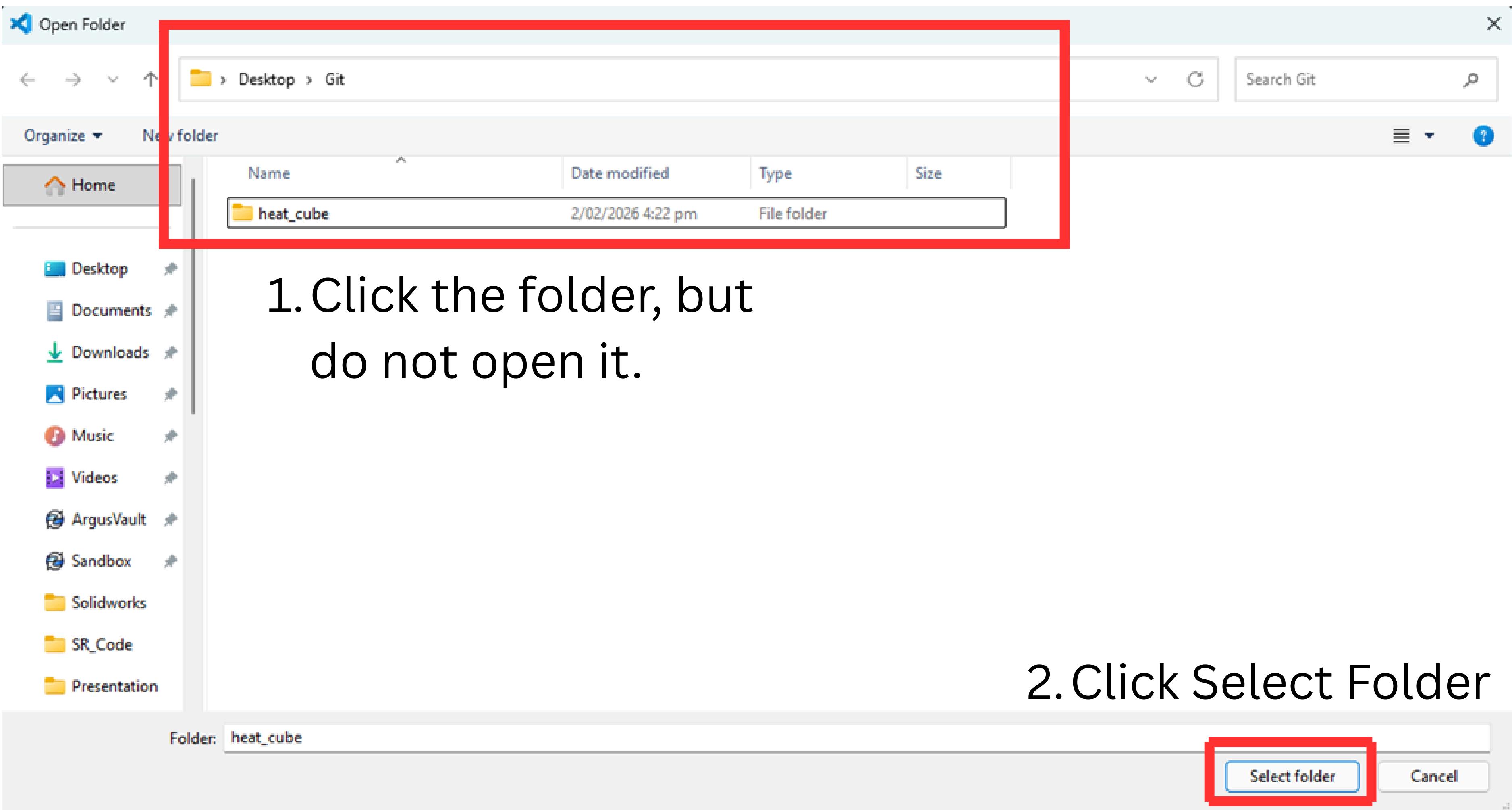
```
1 """
2 Heat Cube State Machine
3 Main system controller for thermocouple management and state transitions.
4 """
5
6 import machine
7 import time
8 import os
9
10 from shift_register import SR74HC595_BITBANG
11 from thermocouple import MAX31855
12 from init import TC_MANAGER
13
14 # ===== CONFIGURATION =====
15 POSITION_FILE = "position.csv"
16 USER_BTN_PIN = "PA0"
17 VBUS_PIN = "PA9"
18
19 scan_pending = False # Global flag
20 DEBUG_PIN1 = machine.Pin("PE9", machine.Pin.OUT) # Debug pin for timing measurements
```

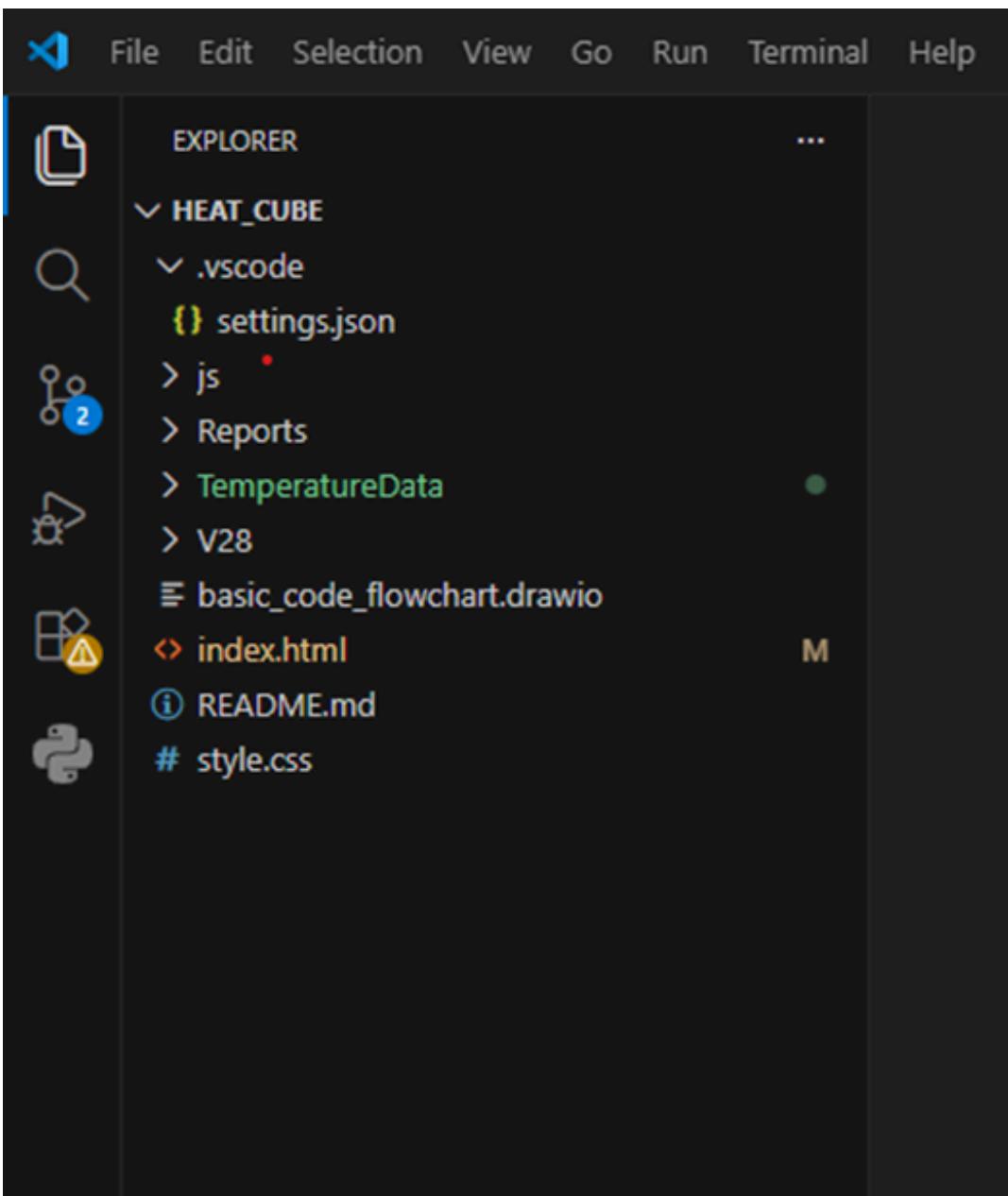
Shell

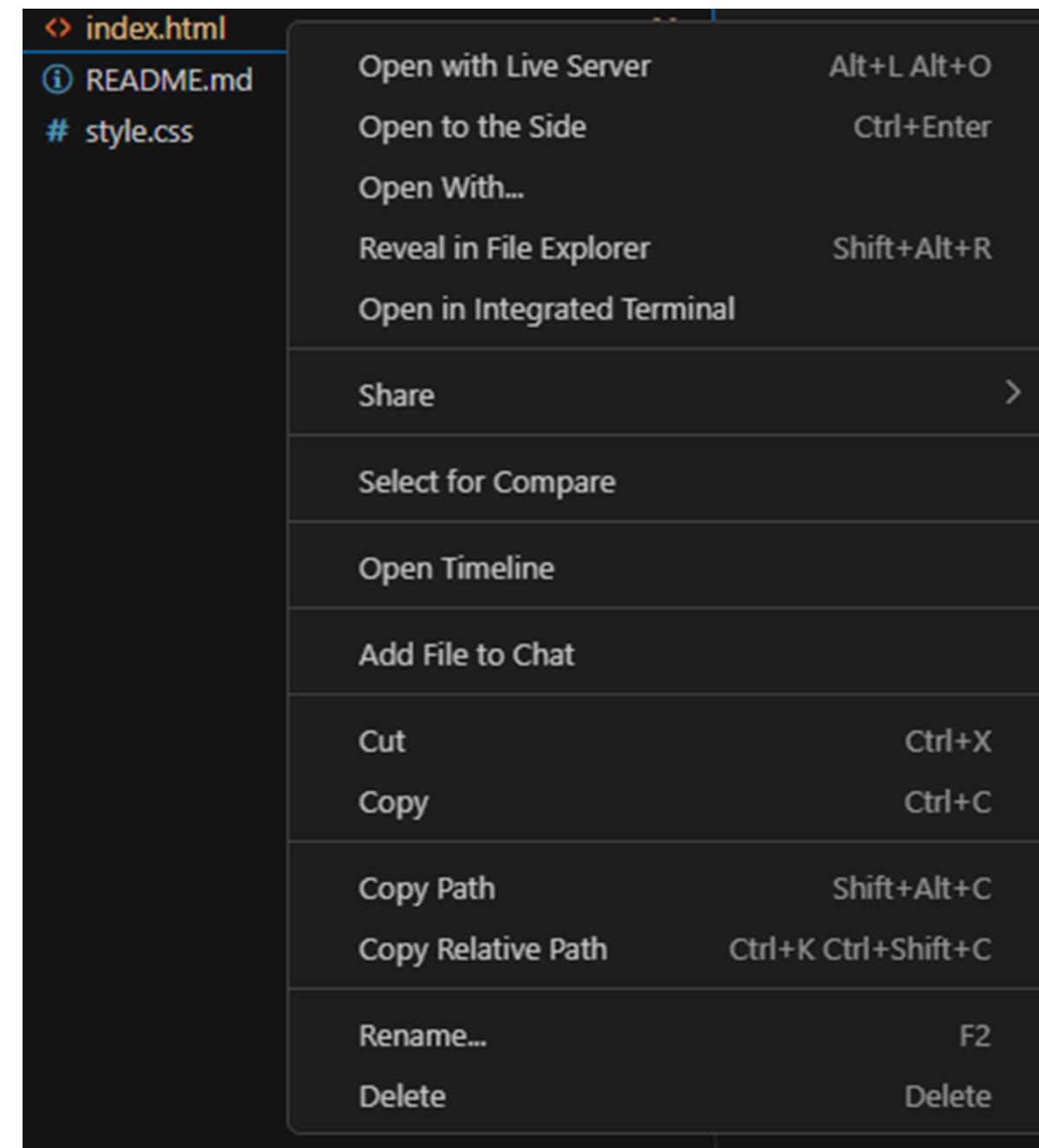
```
MicroPython v1.27.0-preview.12.gb1d5c656d.dirty on 2025-08-25; NUCLEO-F413ZH SDCARD V0.5 with STM32F413
Use front USB connector to access SD-Card from PC
Type "help()" for more information.
>>>
```

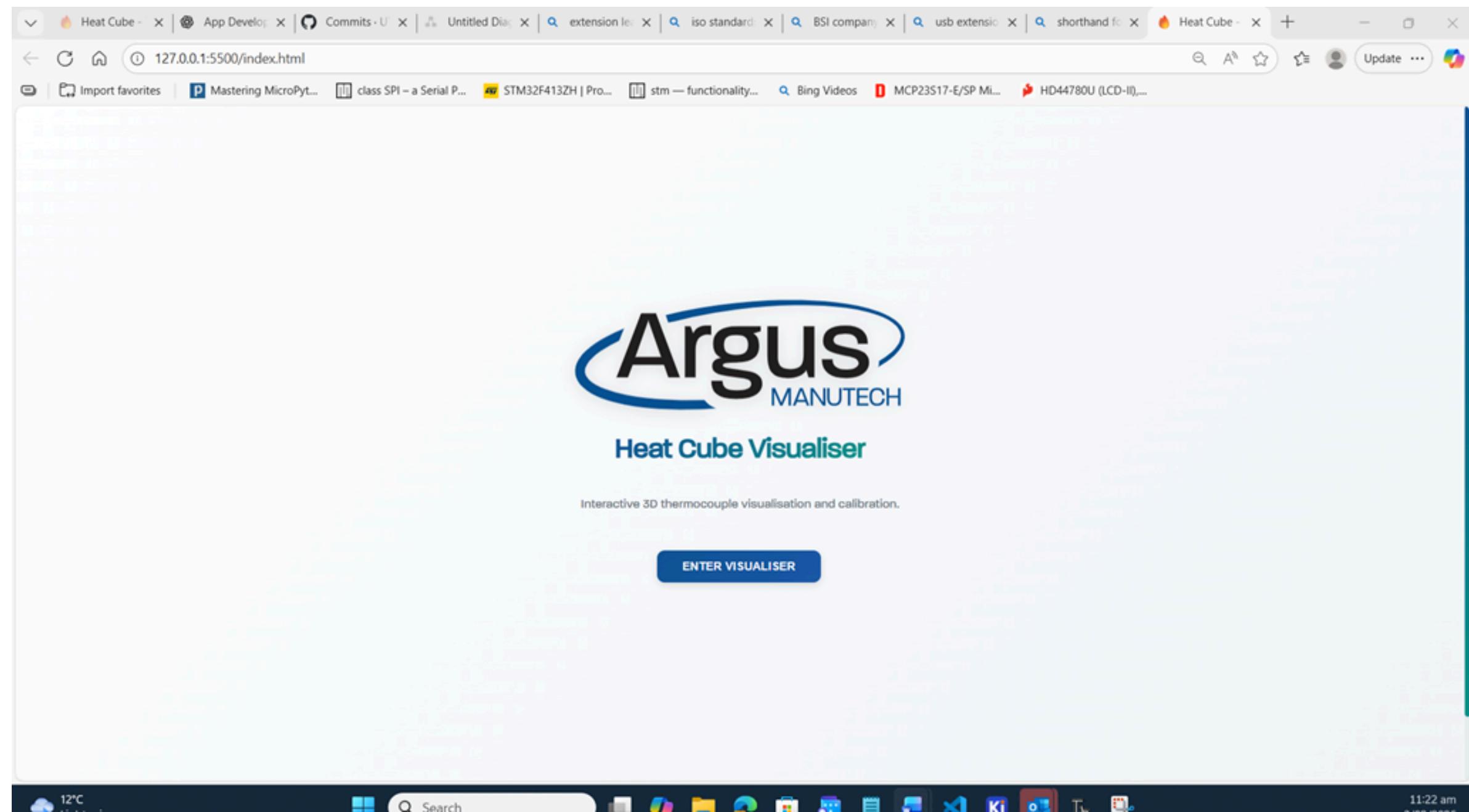
MicroPython (generic) • ST-Link VCP Ctrl @ COM11



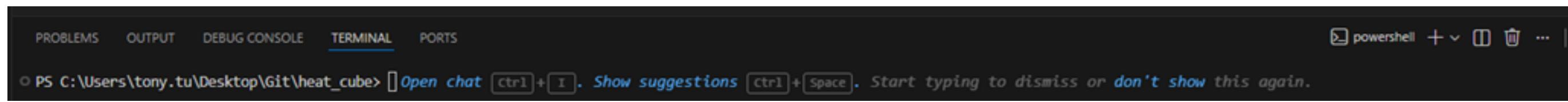












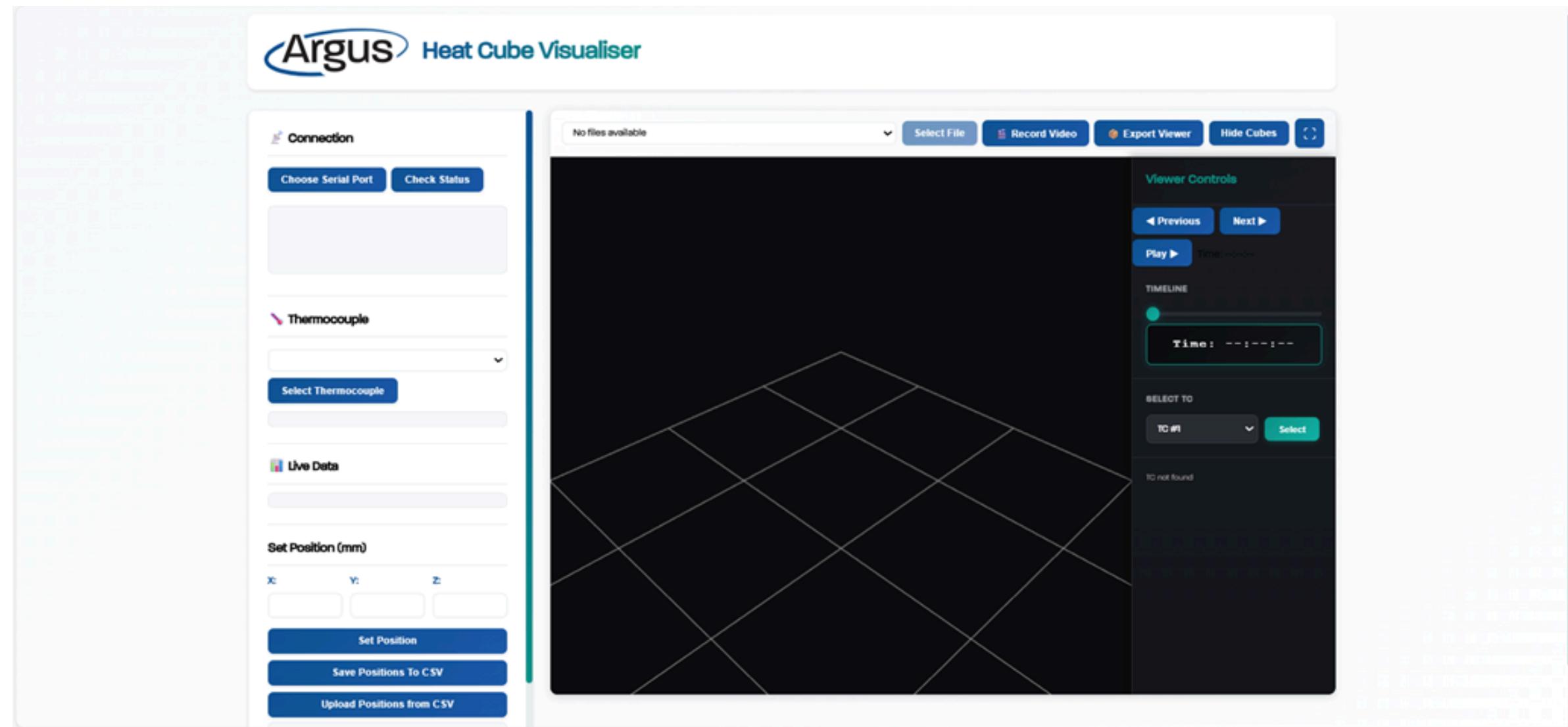
The screenshot shows a terminal window with a dark background and light-colored text. At the top, there are five tabs: PROBLEMS, OUTPUT, DEBUG CONSOLE, TERMINAL, and PORTS. The TERMINAL tab is underlined, indicating it is active. Below the tabs, there is a command history:

- PS C:\Users\tony.tu\Desktop\Git\heat\_cube> cd js
- PS C:\Users\tony.tu\Desktop\Git\heat\_cube\js> cd ..
- PS C:\Users\tony.tu\Desktop\Git\heat\_cube> cd js
- PS C:\Users\tony.tu\Desktop\Git\heat\_cube\js> █

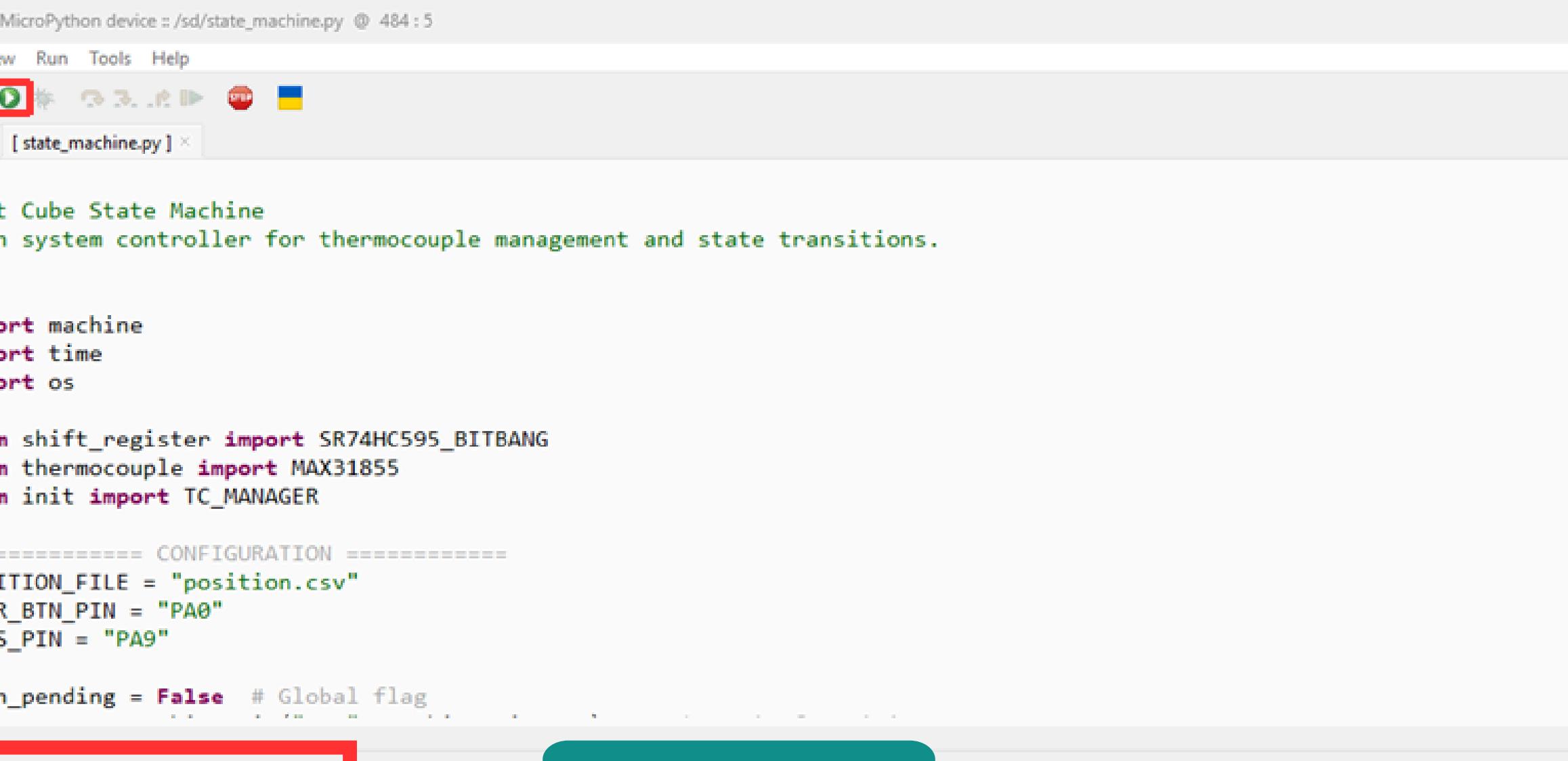
The last line shows a command being typed, with the cursor at the end of "js>".

PROBLEMS    OUTPUT    DEBUG CONSOLE    TERMINAL    PORTS

```
● PS C:\Users\tony.tu\Desktop\Git\heat_cube> cd js
● PS C:\Users\tony.tu\Desktop\Git\heat_cube\js> cd ..
● PS C:\Users\tony.tu\Desktop\Git\heat_cube> cd js
○ PS C:\Users\tony.tu\Desktop\Git\heat_cube\js> node copy-backend.js
Copy backend listening on http://localhost:3001
```

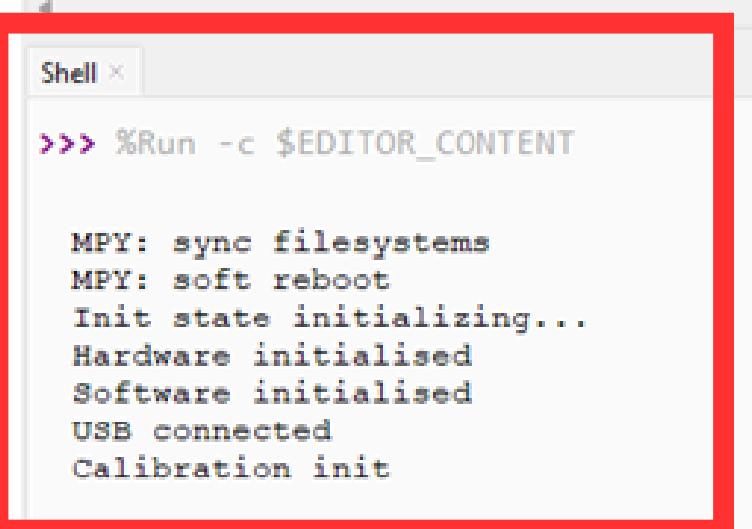


Clicking this  
button will start  
the program



```
- MicroPython device :: /sd/state_machine.py @ 484 : 5
View Run Tools Help
[ state_machine.py ] ×

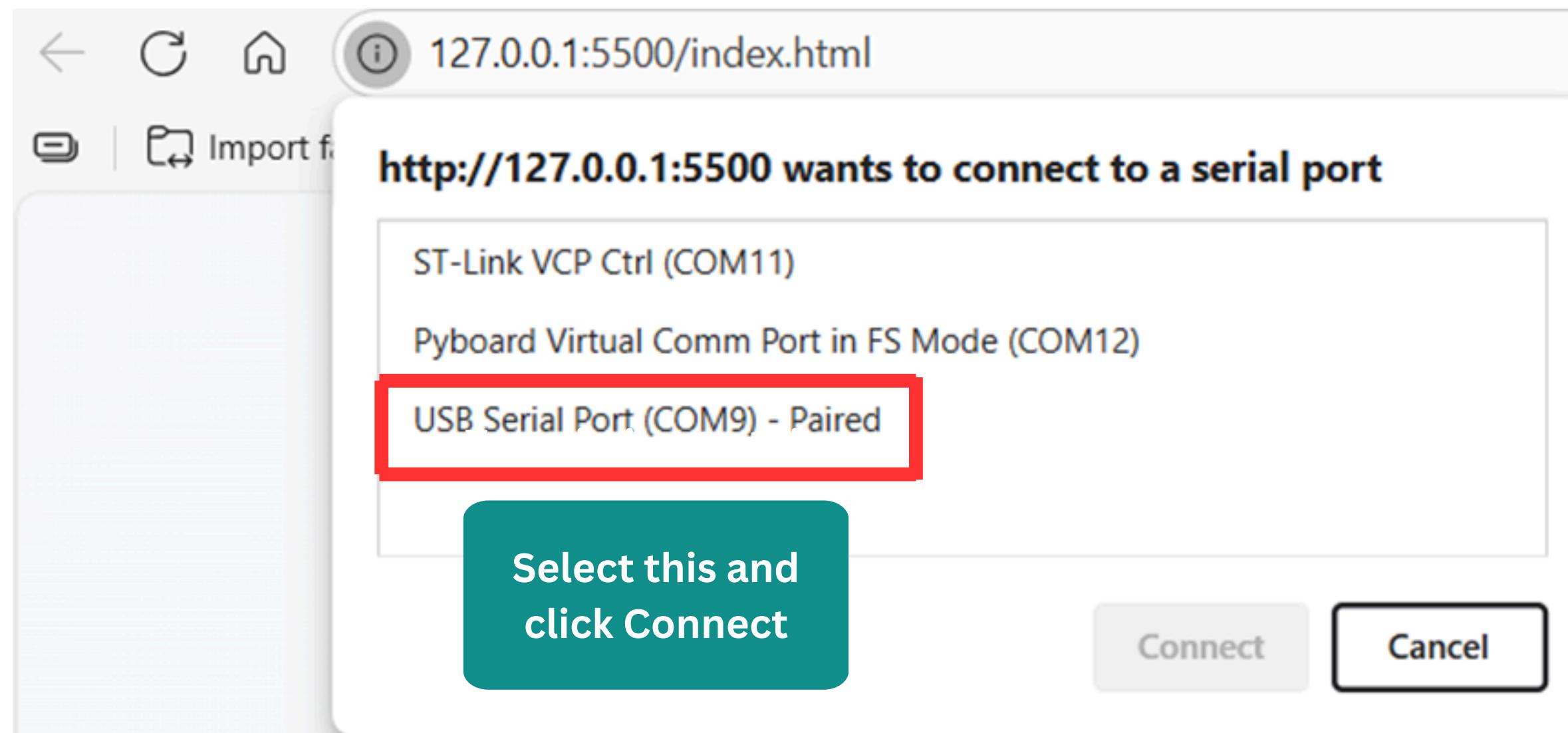
2 Heat Cube State Machine
3 Main system controller for thermocouple management and state transitions.
4 """
5
6 import machine
7 import time
8 import os
9
10 from shift_register import SR74HC595_BITBANG
11 from thermocouple import MAX31855
12 from init import TC_MANAGER
13
14 # ===== CONFIGURATION =====
15 POSITION_FILE = "position.csv"
16 USER_BTN_PIN = "PA0"
17 VBUS_PIN = "PA9"
18
19 scan_pending = False # Global flag
```

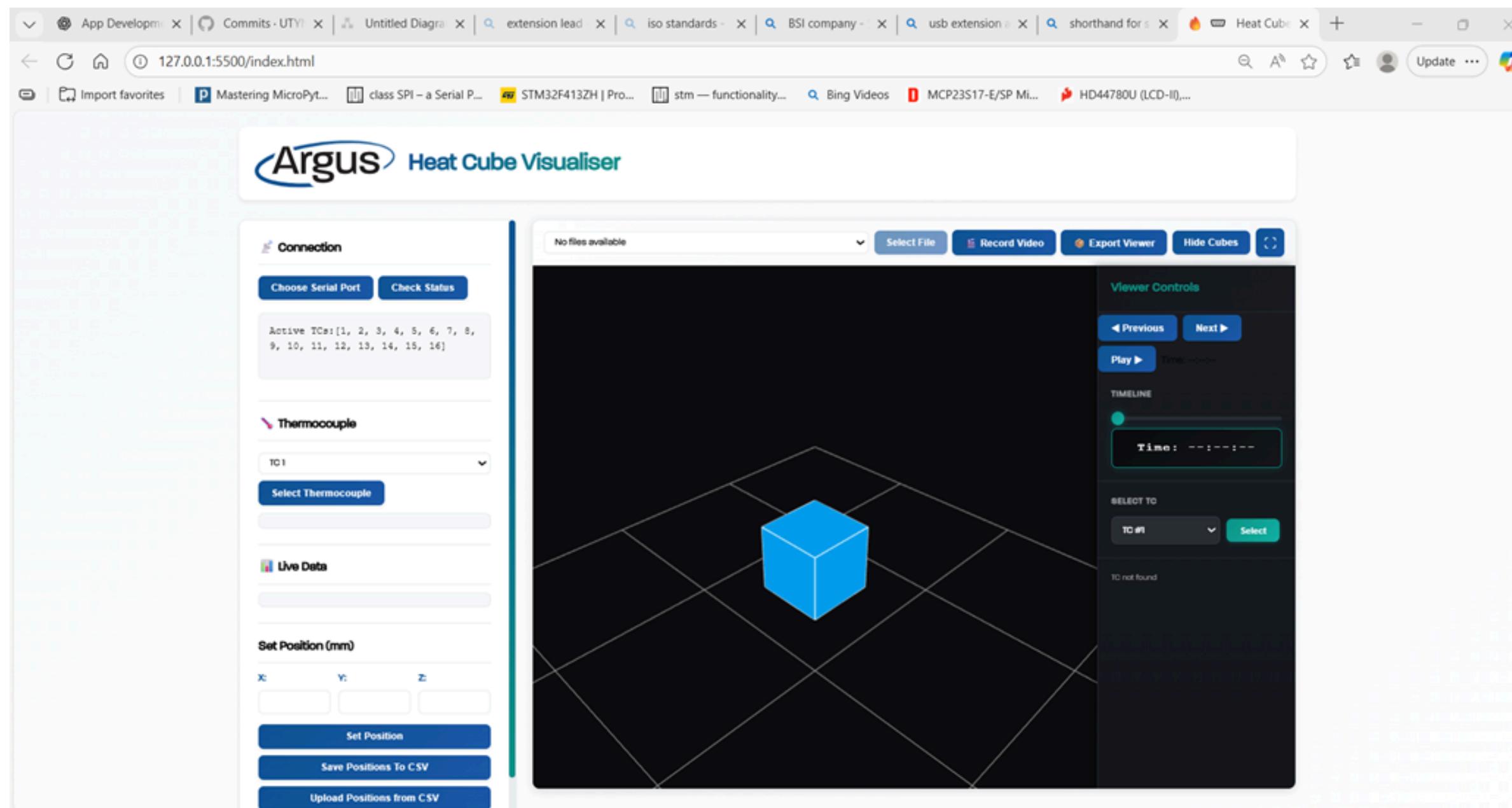


```
Shell ×
>>> %Run -c $EDITOR_CONTENT

MPY: sync filesystems
MPY: soft reboot
Init state initializing...
Hardware initialised
Software initialised
USB connected
Calibration init
```

Text similar to this  
should appear.





Thonny - MicroPython device :: /sd/state\_machine.py @ 484:5

File Edit View Run Tools Help

<untitled> [ state\_machine.py ]

```
1 """
2 Heat Cube State Machine
3 Main system controller for thermocouple management and state transitions.
4 """
5
6 import machine
7 import time
8 import os
9
10 from shift_register import SR74HC595_BITBANG
11 from thermocouple import MAX31855
12 from init import TC_MANAGER
13
14 # ===== CONFIGURATION =====
15 POSITION_FILE = "position.csv"
16 USER_BTN_PIN = "PA0"
17 VBUS_PIN = "PA9"
18
19 scan_pending = False # Global flag
```

Shell >>> %Run -c \$EDITOR\_CONTENT

```
MPY: sync filesystems
MPY: soft reboot
Init state initializing...
Hardware initialised
Software initialised
USB connected
Calibration init
Active TCs:[1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16]
```

Active TCs:[1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16]

### Thermocouple

TC 1

Select Thermocouple

Live Data

Set Position (mm)

X:  Y:  Z:

Set Position

Save Positions To CSV

Upload Positions from CSV

Calibration

No files available

Select File

Record Video

Export Viewer

Hide Cubes



### Viewer Controls

◀ Previous

Next ▶

Play ▶

Time: --:--:--

### TIMELINE

Time: --:--:--

### SELECT TC

TC #1

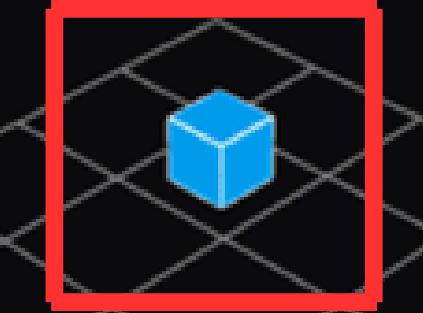
Select

TC not found

1

2

7



4  
5

6

Click this red button first.

```
3  # Main system controller for thermocouple management and state transitions.
4  """
5
6  import machine
7  import time
8  import os
9
10 from shift_register import SR74HC595_BITBANG
11 from thermocouple import MAX31855
12 from init import TC_MANAGER
13
14 # ----- CONFIGURATION -----
15 POSITION_FILE = "position.csv"
16 USER_BTN_PIN = "PA0"
17 VBUS_PIN = "PA9"
18
19 scan_pending = False # Global flag
```

```
Shell >
MPY: sync filesystems
MPY: soft reboot
Init state initializing...
Hardware initialised
Software initialised
USB connected
Calibration init
Active TCs:[1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16]
```

```
Traceback (most recent call last):
File "<stdin>", line 617, in <module>
File "<stdin>", line 614, in main
File "<stdin>", line 539, in run
File "<stdin>", line 154, in handle
KeyboardInterrupt:
```

```
MPY: sync filesystems
MPY: soft reboot
MicroPython v1.27.0-preview.12.gbid5c656d.dirty on 2025-08-25; NUCLEO-F413ZH SDCARD V0.5 with STM32F413
Use front USB connector to access SD-Card from PC
Type "help()" for more information.
>>>
```

After clicking the Stop button, this is what your shell should look like.

Press this button.



The image shows a Windows desktop environment with several open windows:

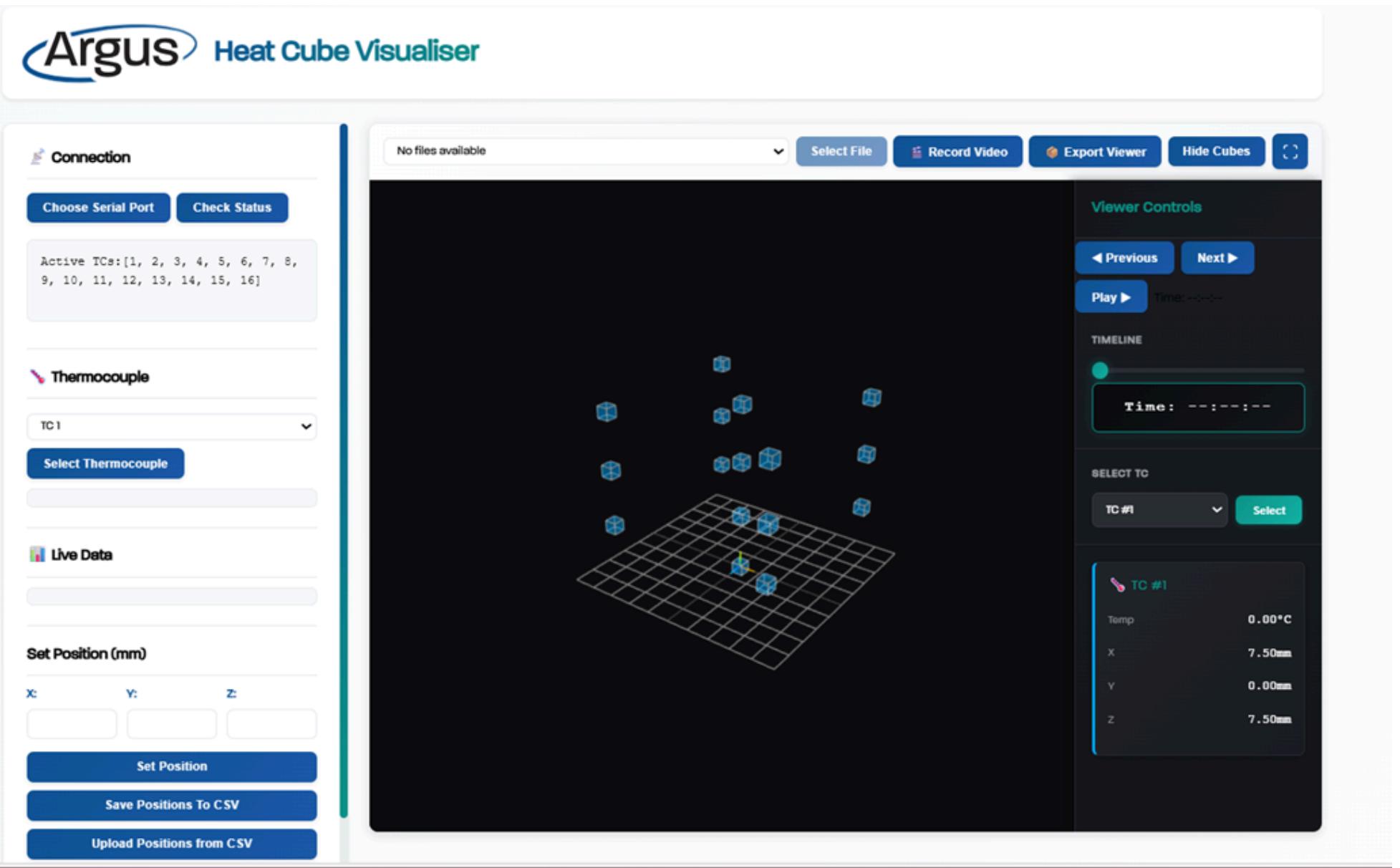
- File Explorer:** Shows a tree view of files and folders. A red box highlights the "USB Drive (E:)" entry in the left sidebar.
- Code Editor:** Displays a snippet of JavaScript code related to a "thermocouple" component.
- Microsoft Excel:** An Excel spreadsheet titled "position" is open. The first four columns (A, B, C, D) are highlighted with a red border. Column A contains values from 1 to 16. Column B contains values 7.5, 0, 0, 15, 15, 15, 15, 15, 15, 15, 15, 15, 15, 15, 15, 15, 15. Column C contains values 0, 5, 5, 15, 15, 15, 15, 15, 15, 15, 15, 15, 15, 15, 15, 15, 15. Column D contains values 7.5, 7.5, 7.5, 7.5, 0, 0, 0, 15, 15, 15, 15, 15, 15, 15, 15, 15, 15, 15.

**Text Labels:**

- Locate the USB Drive E:** Located in the bottom-left corner of the desktop area.
- Locate and open the position.csv file** (with a green background): Located in the center of the desktop area.
- Column 1: Thermocouple number** (with a teal background): Located above the Excel window.
- Column 2: X Position.** (with a teal background): Located below the first column label.
- Column 3: Y Position.** (with a teal background): Located below the second column label.
- Column 4: Z Position.** (with a teal background): Located below the third column label.

**Code Snippet (Visible in Top Left):**

```
window.addEventListener('load', () => {
  const ids = document.querySelectorAll('#tc');
  if (ids.length > 0) {
    system.elements.tcSelectSidebar.value = 'TC #' + (ids.length + 1);
  }
});
```



Active TCs: [1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16]

### Thermocouple

TC 1

Select Thermocouple

### Live Data

Set Position (mm)

X:      Y:      Z:

Click this button  
to start  
measuring data.

Calibration

Finish Calibration

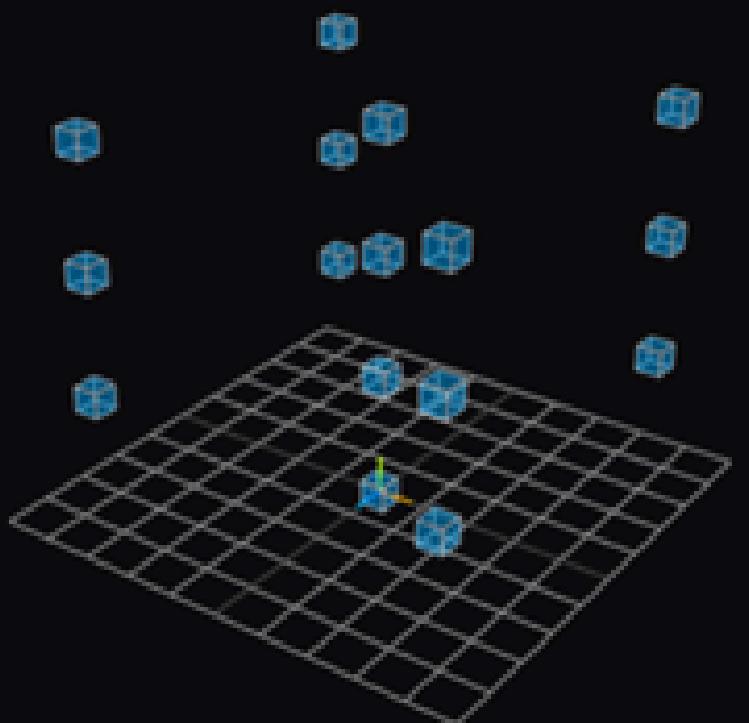
No files available

Select File

Record Video

Export Viewer

Hide Cubes



### Viewer Controls

◀ Previous

Next ▶

Play ▶

Time: ---:---:---

### TIMELINE

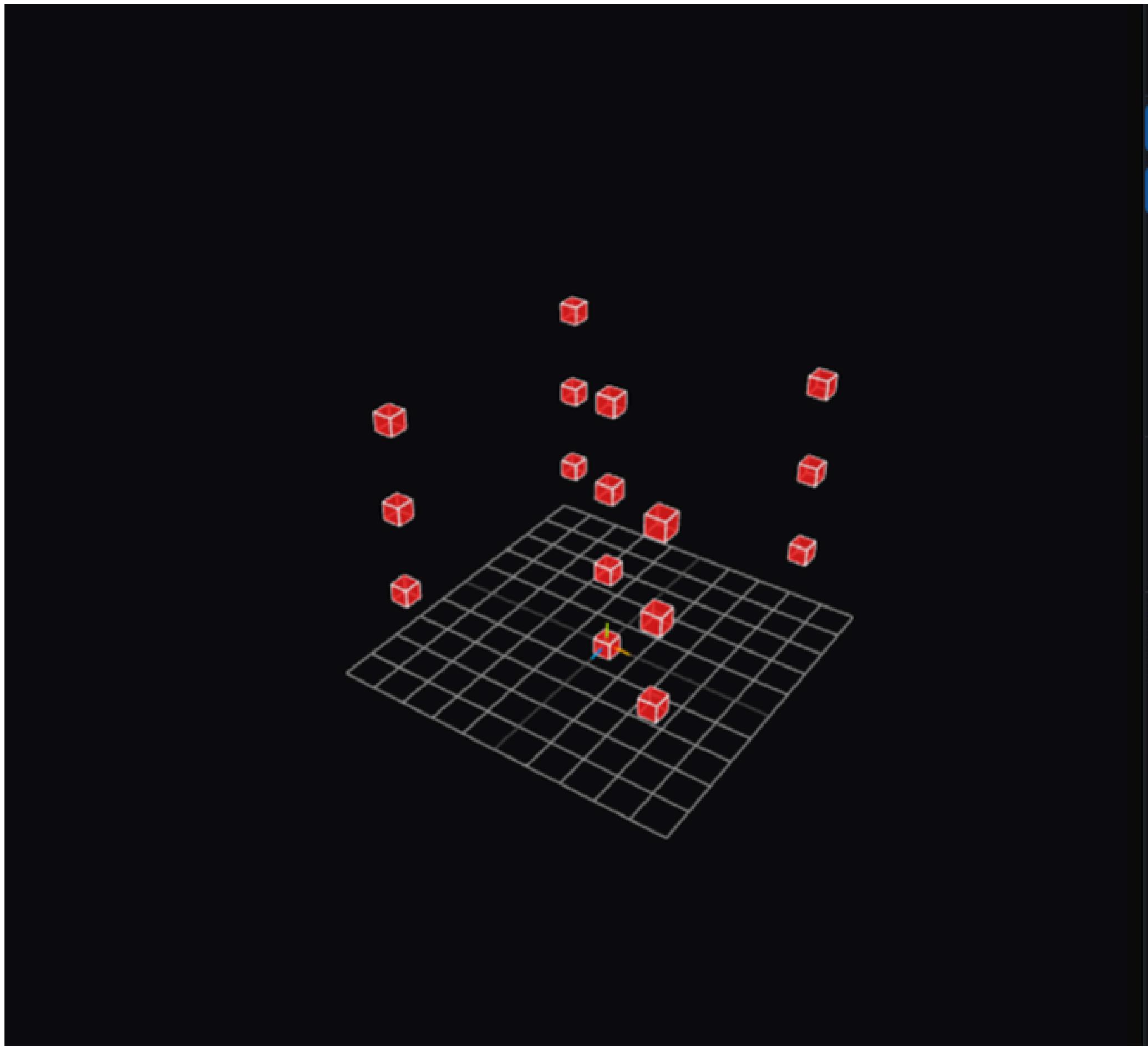
Time: ---:---:---

### SELECT TO

TC #1

Select

TC #1	
Temp	0.00°C
X	7.50mm
Y	0.00mm
Z	7.50mm





## Calibration

Enter Calibration Mode

Shell

Type "help()" for more information.

>>>

>>>

MPY: sync filesystems

MPY: soft reboot

MicroPython v1.27.0-preview.12.gb1d5c656d.dirty on 2025-08-25; NUCLEO-F413ZH SDCARD V0.5 with STM32F413

Use front USB connector to access SD-Card from PC

Type "help()" for more information.

>>> Init state initializing...

Hardware initialised

Software initialised

USB connected

Calibration init

Sent 16 positions

Active TCs:[1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16]

Measure init

Calibration init

Measure init

Calibration init

Measure init

Calibration init

Last message



## Connection

Choose Serial Port

Check Status

Active TCs:[1, 2, 3, 4, 5, 6, 7, 8,  
9, 10, 11, 12, 13, 14, 15, 16]

## Thermocouple

TC 1

Select Thermocouple

## Live Data

## Set Position (mm)

X:            Y:            Z:

Set Position

Save Positions To CSV

Click this button  
to after  
measuring data.

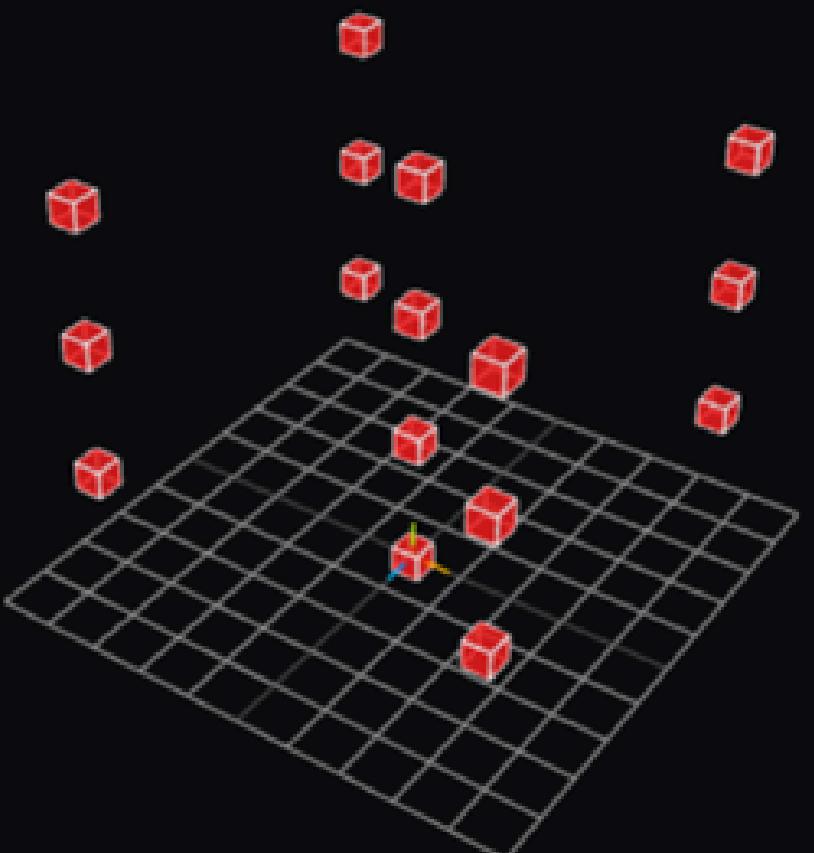


Select File

Record Video

Export Viewer

Hide Cubes



## Viewer Controls

◀ Previous

Next ▶

Play ▶

Time: ---:---

## TIMELINE

Time: ---:---:---

## SELECT TC

TC #1

Select

## TC #1

Temp	0.00°C
X	7.50mm
Y	0.00mm
Z	7.50mm

```
PS C:\Users\tony.tu\Desktop\Git\heat_cube\js> node copy-backend.js
Copy backend listening on http://localhost:3001
Backing up files from E:\ to C:\Users\tony.tu\Desktop\Git\heat_cube\TemperatureData
Copied E:\2026-01-14.csv -> C:\Users\tony.tu\Desktop\Git\heat_cube\TemperatureData\2026-01-14.csv
Copied E:\2026-01-16.csv -> C:\Users\tony.tu\Desktop\Git\heat_cube\TemperatureData\2026-01-16.csv
Copied E:\2026-01-19.csv -> C:\Users\tony.tu\Desktop\Git\heat_cube\TemperatureData\2026-01-19.csv
Copied E:\2026-01-20.csv -> C:\Users\tony.tu\Desktop\Git\heat_cube\TemperatureData\2026-01-20.csv
Copied E:\2026-01-21.csv -> C:\Users\tony.tu\Desktop\Git\heat_cube\TemperatureData\2026-01-21.csv
Copied E:\2026-01-26.csv -> C:\Users\tony.tu\Desktop\Git\heat_cube\TemperatureData\2026-01-26.csv
Copied E:\2026-01-27.csv -> C:\Users\tony.tu\Desktop\Git\heat_cube\TemperatureData\2026-01-27.csv
Copied E:\2026-01-28.csv -> C:\Users\tony.tu\Desktop\Git\heat_cube\TemperatureData\2026-01-28.csv
Copied E:\2026-01-27.csv -> C:\Users\tony.tu\Desktop\Git\heat_cube\TemperatureData\2026-01-27.csv
Copied E:\2026-01-28_10-45.csv -> C:\Users\tony.tu\Desktop\Git\heat_cube\TemperatureData\2026-01-28_10-45.csv
Copied E:\2026-01-28_11-00.csv -> C:\Users\tony.tu\Desktop\Git\heat_cube\TemperatureData\2026-01-28_11-00.csv
Copied E:\2026-01-28_12-00.csv -> C:\Users\tony.tu\Desktop\Git\heat_cube\TemperatureData\2026-01-28_12-00.csv
Copied E:\2026-01-28_12-15.csv -> C:\Users\tony.tu\Desktop\Git\heat_cube\TemperatureData\2026-01-28_12-15.csv
Copied E:\2026-01-28_12-30.csv -> C:\Users\tony.tu\Desktop\Git\heat_cube\TemperatureData\2026-01-28_12-30.csv
Copied E:\2026-01-28_12-45.csv -> C:\Users\tony.tu\Desktop\Git\heat_cube\TemperatureData\2026-01-28_12-45.csv
Copied E:\2026-01-28_13-00.csv -> C:\Users\tony.tu\Desktop\Git\heat_cube\TemperatureData\2026-01-28_13-00.csv
Copied E:\2026-01-28_14-00.csv -> C:\Users\tony.tu\Desktop\Git\heat_cube\TemperatureData\2026-01-28_14-00.csv
Copied E:\2026-01-28_14-15.csv -> C:\Users\tony.tu\Desktop\Git\heat_cube\TemperatureData\2026-01-28_14-15.csv
Copied E:\2026-01-28_15-45.csv -> C:\Users\tony.tu\Desktop\Git\heat_cube\TemperatureData\2026-01-28_15-45.csv
Copied E:\2026-01-28_16-15.csv -> C:\Users\tony.tu\Desktop\Git\heat_cube\TemperatureData\2026-01-28_16-15.csv
Copied E:\2026-01-28_16-30.csv -> C:\Users\tony.tu\Desktop\Git\heat_cube\TemperatureData\2026-01-28_16-30.csv
Copied E:\2026-01-29_09-45.csv -> C:\Users\tony.tu\Desktop\Git\heat_cube\TemperatureData\2026-01-29_09-45.csv
Copied E:\2026-01-29_10-00.csv -> C:\Users\tony.tu\Desktop\Git\heat_cube\TemperatureData\2026-01-29_10-00.csv
Copied E:\2026-01-29_10-30.csv -> C:\Users\tony.tu\Desktop\Git\heat_cube\TemperatureData\2026-01-29_10-30.csv
Copied E:\2026-01-29_15-30.csv -> C:\Users\tony.tu\Desktop\Git\heat_cube\TemperatureData\2026-01-29_15-30.csv
Copied E:\2026-01-29_16-00.csv -> C:\Users\tony.tu\Desktop\Git\heat_cube\TemperatureData\2026-01-29_16-00.csv
Copied E:\2026-01-30_08-30.csv -> C:\Users\tony.tu\Desktop\Git\heat_cube\TemperatureData\2026-01-30_08-30.csv
Copied E:\2026-02-03_09-30.csv -> C:\Users\tony.tu\Desktop\Git\heat_cube\TemperatureData\2026-02-03_09-30.csv
Copied E:\2026-02-03_12-00.csv -> C:\Users\tony.tu\Desktop\Git\heat_cube\TemperatureData\2026-02-03_12-00.csv
Copied E:\2026-02-03_12-30.csv -> C:\Users\tony.tu\Desktop\Git\heat_cube\TemperatureData\2026-02-03_12-30.csv
Backup complete.
```



2. Click Select File

Select a file...

Select File

Record Video

Export Viewer

Hide Cubes

Connection

Choose Serial Port

Check Status

Active TCs:[1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16]

Thermocouple

TC 1

Select Thermocouple

Live Data

Set Position (mm)

X: Y: Z:

Set Position

Save Positions To CSV

Upload Positions from CSV

Select a file...

2026-01-13.csv

2026-01-14.csv

2026-01-16.csv

2026-01-19.csv

2026-01-20.csv

2026-01-21.csv

2026-01-23.csv

2026-01-26.csv

2026-01-27.csv

2026-01-28.csv

2026-01-28\_10-45.csv

2026-01-28\_11-00.csv

2026-01-28\_12-00.csv

2026-01-28\_12-15.csv

2026-01-28\_12-30.csv

2026-01-28\_12-45.csv

2026-01-28\_13-00.csv

2026-01-28\_14-00.csv

2026-01-28\_14-15.csv

Viewer Controls

◀ Previous

Next ▶

Play ▶

Time: --:--:--

TIMELINE

Time: --:--:--

SELECT TC

TC #1

TC #1

Temp 0.00°C

X 7.50mm

Y 0.00mm

Z 7.50mm



## Heat Cube Visualiser

### Connection

Choose Serial Port

Check Status

Loaded 50 data points from 2026-02-03\_12-30.csv

2026-02-03\_12-30.csv

Select File

Record Video

Export Viewer

Hide Cubes



### Viewer Controls

◀ Previous

Next ▶

Play ▶

Time: -----

This will show which file you selected and the data points in the file.

2026-02-03\_12-30.csv

Select File

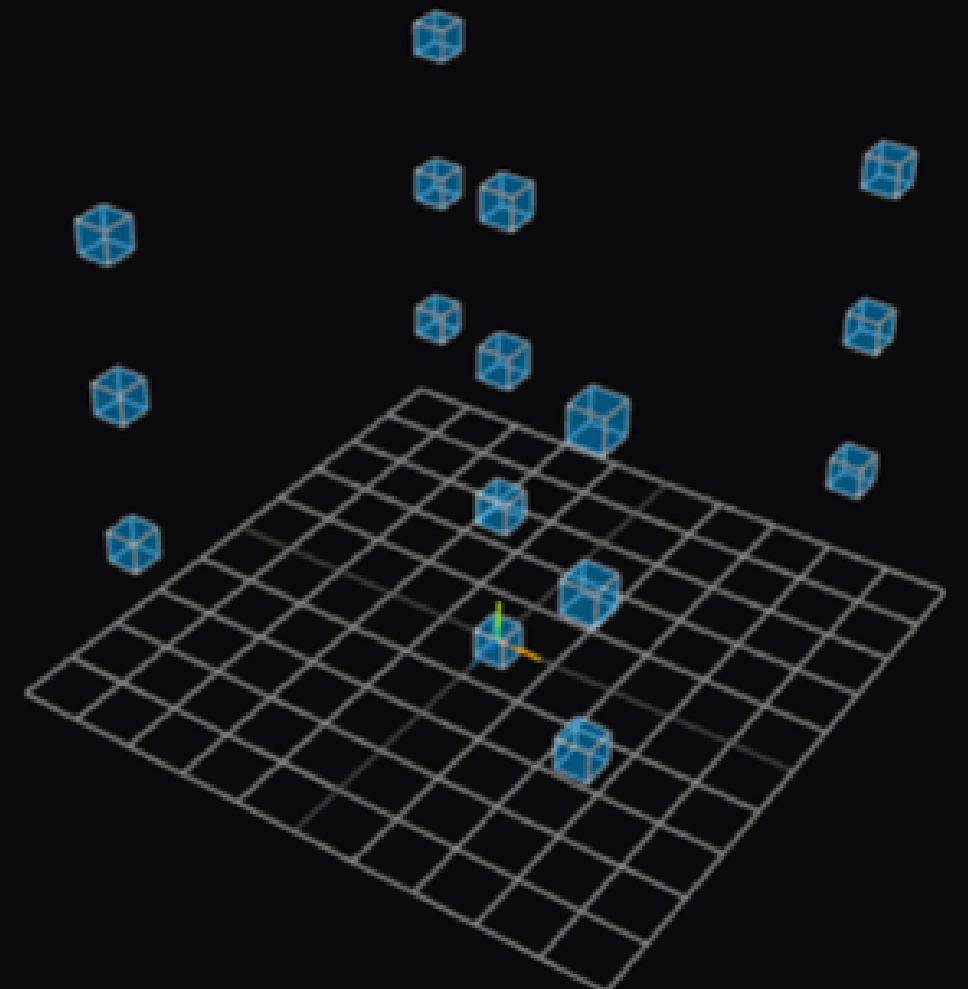
Record Video

Export Viewer

Hide Cubes



## 1. Feature Buttons



## Viewer Controls

◀ Previous

Next ▶

Play ▶

Time: --:--:--

### TIMELINE

Time: 12:31:31

### SELECT TC

TC #1

Select

TC #1

Temp	0.00°C
X	7.50mm
Y	0.00mm
Z	7.50mm

7.50mm

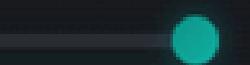
0.00mm

7.50mm

0.00°C

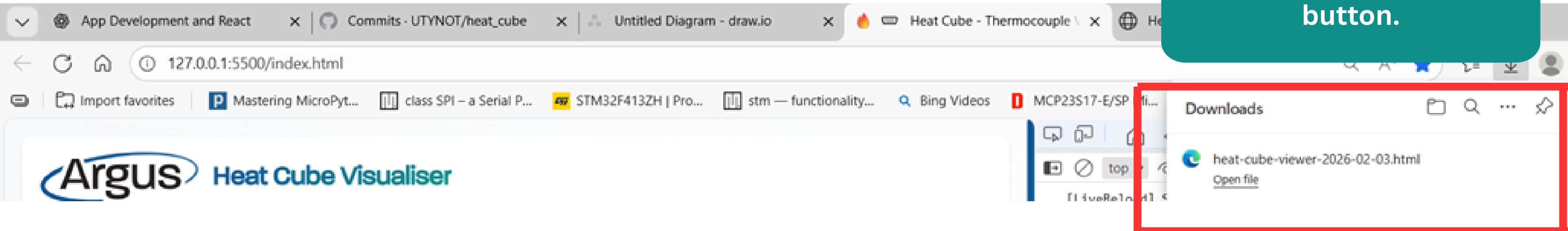
Select

TC #1



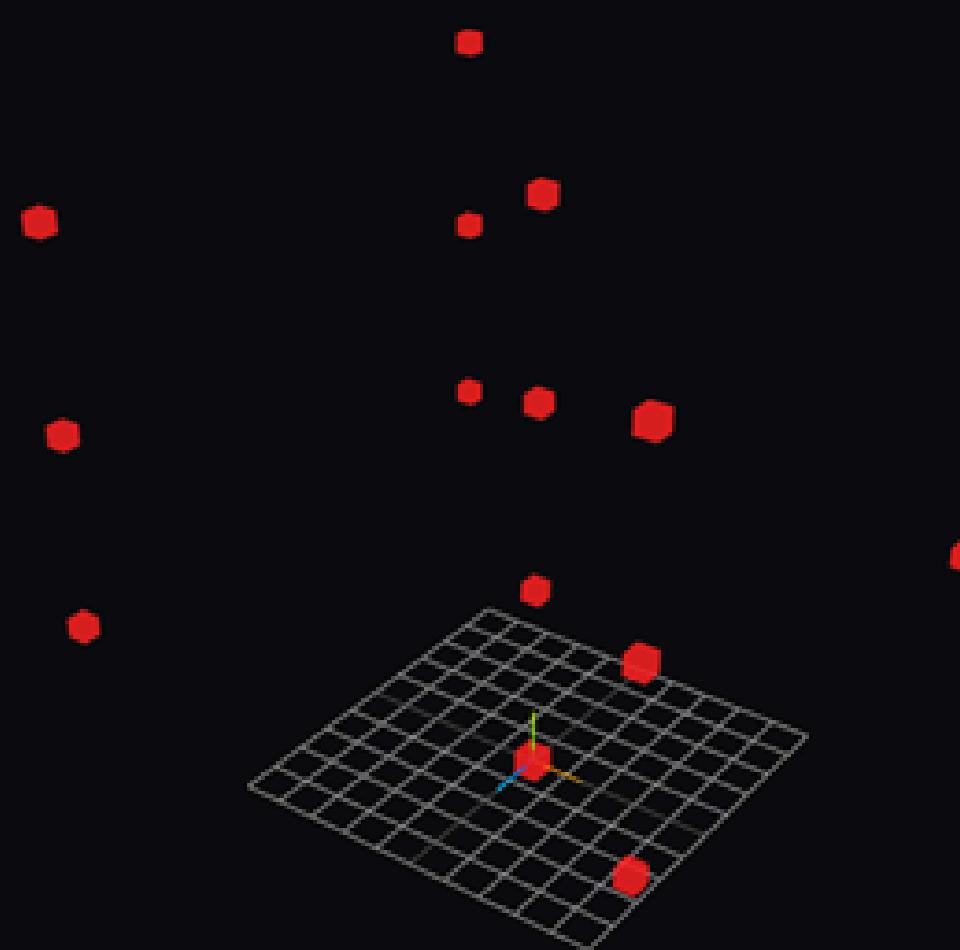
## 2. Viewer Controls

This is what should pop up when clicking the Export Viewer button.





Viewer Controls  
section in the export  
HTML file.



### Viewer Controls

#### TIMELINE

◀ Previous | Next ▶ | Play ▶

Time: 12:31:31

#### SELECT TC

TC 1 Select

TC #1

Temp	2047.75 °C
X	7.50mm
Y	0.00mm
Z	7.50mm

1. Refresh the page

gus Heat Cube Visualiser

Connection

Choose Serial Port Check Status

✓ Exported: Single interactive HTML file (fully self-contained)

Thermocouple

TC1 Select Thermocouple

Live Data

Set Position (mm)

X Y Z

Set Position Save Positions To CSV Upload Positions from CSV

2. Click the Check Status button

Select File Record Video Export Viewer Hide Cubes

Viewer Controls

◀ Previous ▶ Next

Play Time: 12:31:31

TIMELINE

SELECT TC

TC #1 Select

TC #1

Temp	2647.75°C
X	7.50mm
Y	0.00mm
Z	7.50mm

```
Copied E:\2026-01-27.csv -> C:\Users\tony.tu\Desktop\Git\heat_cube\TemperatureData\2026-01-27.csv
Copied E:\2026-01-29_09-45.csv -> C:\Users\tony.tu\Desktop\Git\heat_cube\TemperatureData\2026-01-29_09-45.csv
Copied E:\2026-01-29_10-00.csv -> C:\Users\tony.tu\Desktop\Git\heat_cube\TemperatureData\2026-01-29_10-00.csv
Copied E:\2026-01-29_10-30.csv -> C:\Users\tony.tu\Desktop\Git\heat_cube\TemperatureData\2026-01-29_10-30.csv
Copied E:\2026-01-29_15-30.csv -> C:\Users\tony.tu\Desktop\Git\heat_cube\TemperatureData\2026-01-29_15-30.csv
Copied E:\2026-01-29_16-00.csv -> C:\Users\tony.tu\Desktop\Git\heat_cube\TemperatureData\2026-01-29_16-00.csv
Copied E:\2026-01-30_08-30.csv -> C:\Users\tony.tu\Desktop\Git\heat_cube\TemperatureData\2026-01-30_08-30.csv
Copied E:\2026-02-03_09-30.csv -> C:\Users\tony.tu\Desktop\Git\heat_cube\TemperatureData\2026-02-03_09-30.csv
Copied E:\2026-02-03_12-00.csv -> C:\Users\tony.tu\Desktop\Git\heat_cube\TemperatureData\2026-02-03_12-00.csv
Copied E:\2026-02-03_12-30.csv -> C:\Users\tony.tu\Desktop\Git\heat_cube\TemperatureData\2026-02-03_12-30.csv
Backup complete.
```

```
PS C:\Users\tony.tu\Desktop\Git\heat_cube\js> node copy-backend.js
```

```
Copy backend listening on http://localhost:3001
```

```
< PS C:\Users\tony.tu\Desktop\Git\heat_cube\js> node copy-backend.js
```

```
Copy backend listening on http://localhost:3001
```

Ctrl + C was pressed  
between these two  
lines.

# Argus Heat Cube Visualiser

Heat Cube Visualiser

2020-02-03\_02-30.csv

Select File Record Video

◀ Previous Next ▶

Play ▶ Time: 00:00:00

Back Alt+Left arrow

Refresh Ctrl+R

Save as Ctrl+S

Print Ctrl+P

Send tab to your devices

Create QR Code for this page

Summarize with Copilot

Translate to English

Visual Search Alt+Shift+S

Screenshot Ctrl+Shift+S

More tools

View page source Ctrl+U

Inspect

Connection

Choose Serial Port Check Status

✓ Exported: Single interactive HTML file (fully self-contained)

Thermocouple

TG1 Select Thermocouple

Live Data

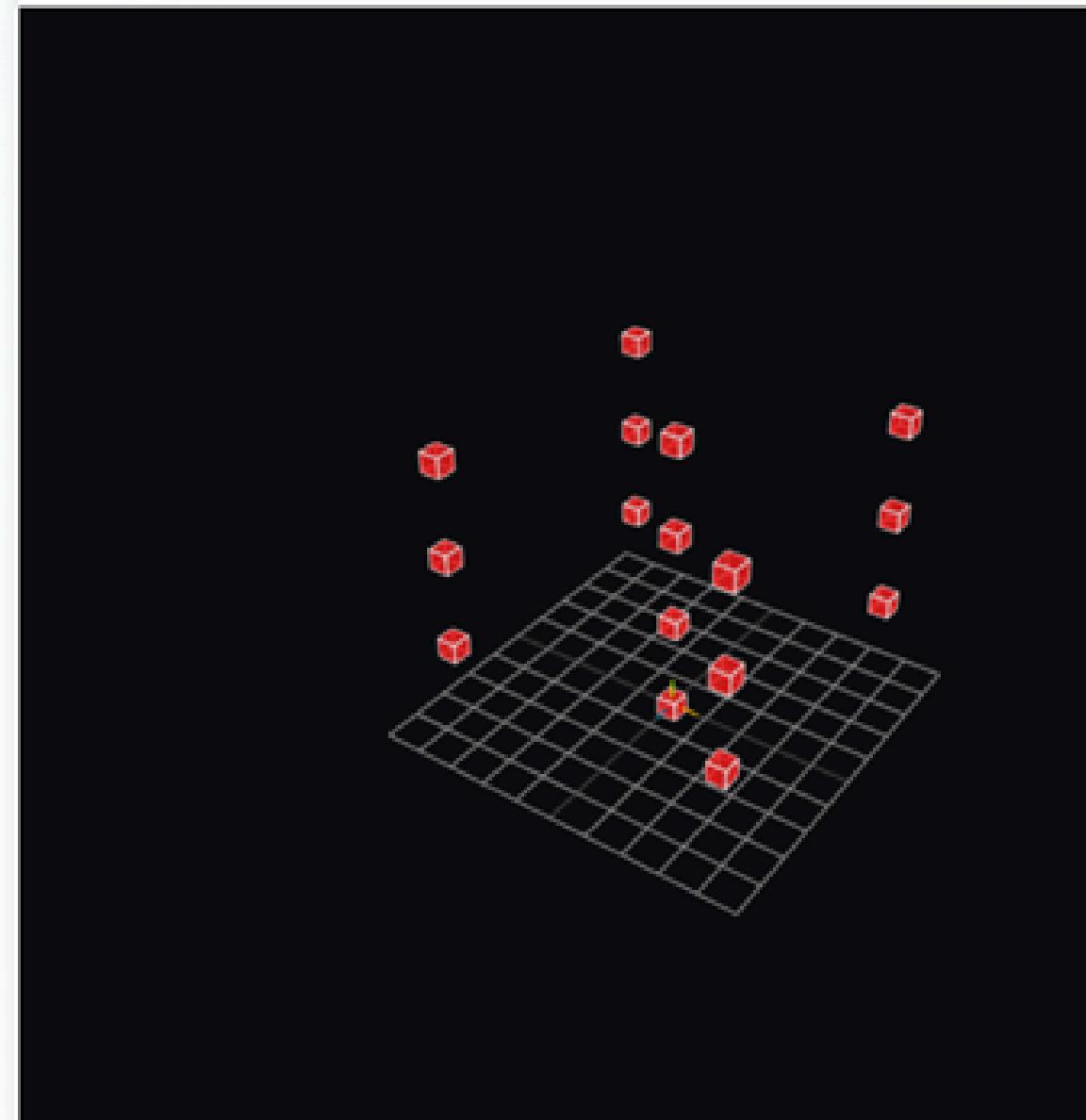
Set Position (mm)

X Y Z

Set Position

Save Positions To CSV

Upload Positions from CSV



Right click on an empty region. Then click inspect

Click this to view the  
console log.

The screenshot shows the Argus Heat Cube Visualiser application running in a browser. The main interface features a 3D grid visualization where small cubes represent temperature data points. A red box highlights the 'Console' tab in the browser's developer tools, which is open to show the JavaScript console log. Another red box highlights a callout bubble stating: 'This area displays the console log messages.'

Argus Heat Cube Visualiser

Connection

Choose Serial Port

Check Status

✓ Exported: Single interactive HTML file (fully self-contained)

Thermocouple

TG1

Select Thermocouple

Live Data

Set Position (mm)

X:    Y:    Z:

2020-02-03\_12-30.csv Select File Record Video Export Viewer Hide Cubes

Views

◀ Prev Play ▶

TIMELINE

TG1

SELECT

Temp X Y Z

Console Issues +

[LiveReload] Suppressed WebSocket connection live-reload.js:57

Debug Mode Active live-reload.js:213

Note: main.py is on the MCU (SD card), not in this workspace live-reload.js:214

[LiveReload] Enabled - watching for changes... live-reload.js:159

[LiveReload] To disable: localStorage.setItem("liveReloadDisabled", "true") live-reload.js:151

[LiveReload] Watching files: index.html, style.css, js/main.js, live-reload.js:152 js/config.js, js/logger.js, js/utils.js, js/uart-helper.js, js/thermocouple.js

--- activeTcsArray after loadSaveStates --- ► Array(16) main.js:1757

init main.js:189

--- Local TemperatureData files: ► Array(31) main.js:1565

--- Processing line: --- CalibrationState main.js:879

--- Processing line: --- Active TCs:[1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16] main.js:879

--- Active TCs: --- Active TCs:[1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16] main.js:896

--- activeTcsArray after handleActiveTCs --- ► Array(16) main.js:939

--- Processing line: --- SOFTWARE\_INIT main.js:879

--- activeTcsArray after loadSaveStates --- ► Array(16) main.js:1757

init main.js:189

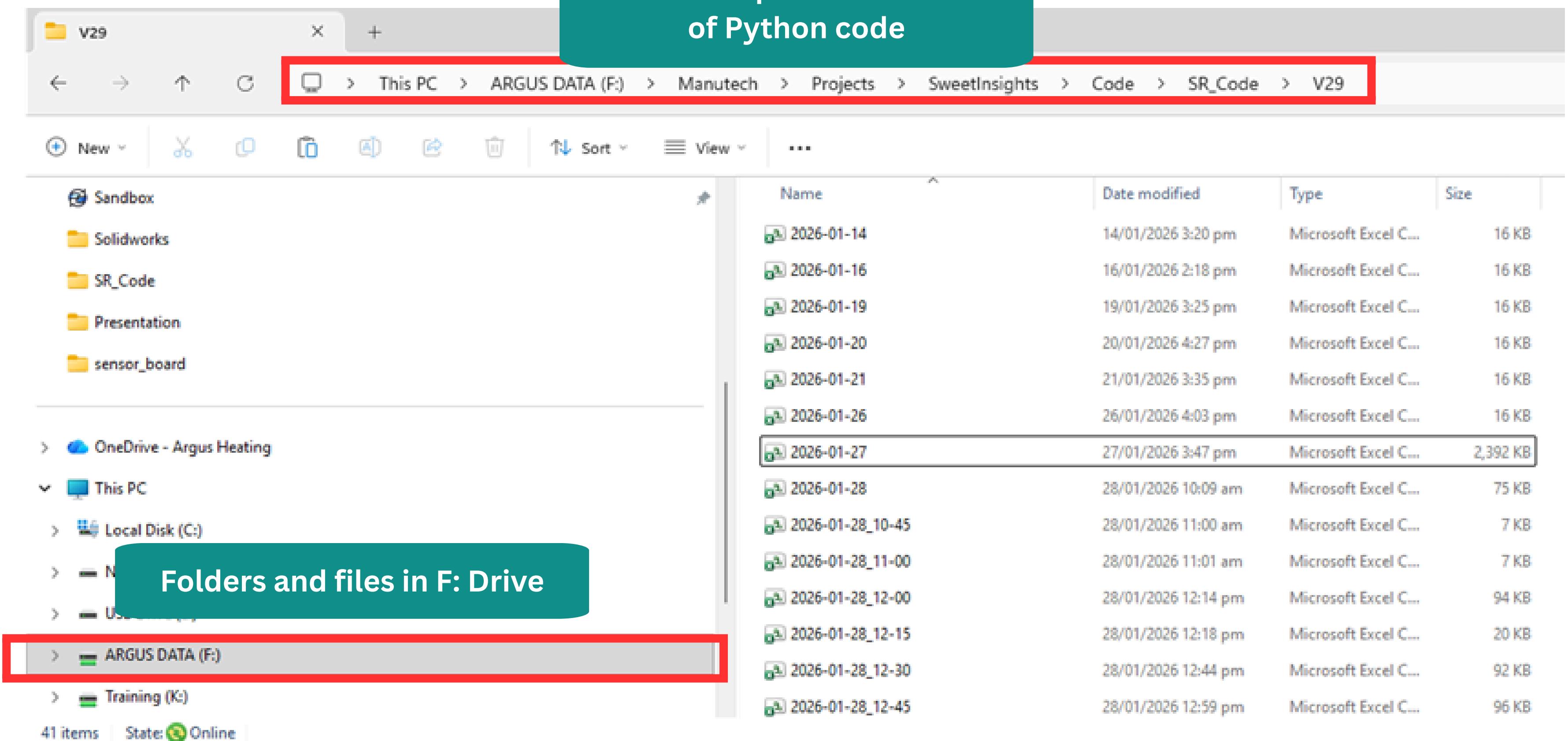
JS main.js X

js > JS main.js > ...

```
2430 window.addEventListener('load', () => {  
2431     ids.forEach(id => {  
2432         const opt = document.createElement('option');  
2433         opt.value = id;  
2434         opt.textContent = `TC #${id}`;  
2435         system.elements.tcSelectSidebar.appendChild(opt);  
2436     });  
2437     if (ids.length > 0) {  
2438         system.elements.tcSelectSidebar.value = ids[0];  
2439         system.updateTcSidebarInfo(ids[0]);  
2440     }  
2441 }  
2442 );  
2443 }  
2444 );  
2445 }  
2446 }  
2447 }  
2448 }
```

Type `localStorage.clear();` on  
this line to clear the local  
storage. After the browser has  
refreshed delete this line.

## Location of previous versions of Python code



Folders and files in F: Drive

## Commits

 main ▾

⌚ Commits on Feb 3, 2026

Working with SR Code V29

 Tony Tu authored and Tony Tu committed now

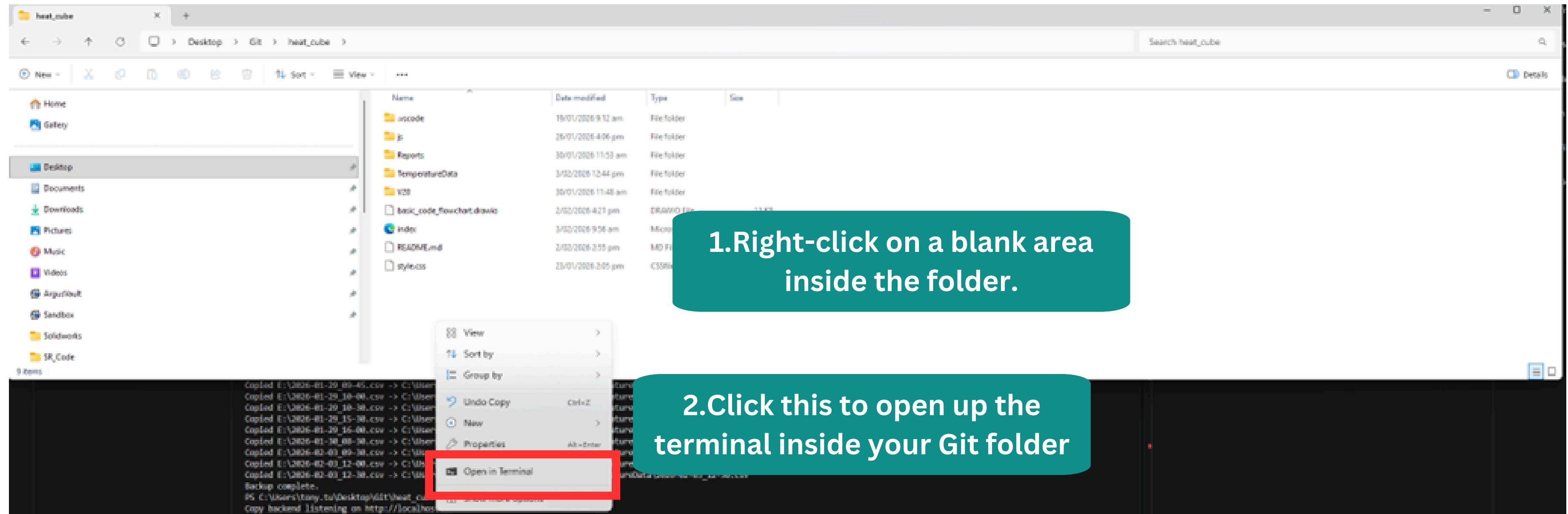
All users ▾

All time ▾

Click the two squares icon to  
copy the commit ID to  
clipboard

ac2f2b3 





A screenshot of a Windows PowerShell window titled "Windows PowerShell". The window shows the following command-line session:

```
PS C:\Users\tony.tu\Desktop\Git\heat_cube> git reset --hard ac2f2b345d15403049c703a3175b1caf4e8c9e55
HEAD is now at ac2f2b3 Working with SR Code V29
PS C:\Users\tony.tu\Desktop\Git\heat_cube> git status
On branch main
Your branch is up to date with 'origin/main'.
nothing to commit, working tree clean
PS C:\Users\tony.tu\Desktop\Git\heat_cube>
```

The first two lines of the session are highlighted with a red rectangular box. To the right of this box is a teal callout bubble containing the text: "1.Typing git reset ... should show this message". Below the red box is another teal callout bubble containing the text: "2.Typing git status should show these messages".

⚠️ Deprecated extensions detected. Review them and migrate to alternatives. [Show](#)

X

## INSTALLED

15

**IntelliCode**

AI-assisted development  
Microsoft

32ms

⚠️ ⚙️

**IntelliCode API Usage Examples**

See relevant code examples from GitHub for over 100K different APIs right in your editor.  
Microsoft

99ms

⚠️ ⚙️

**autoDocstring - Python Docstring Generator**

Generates python docstrings automatically  
Nils Werner

⚙️

**Django**

Beautiful syntax and scoped snippets for perfectionists with deadlines  
Baptiste Darthenay

⚙️

**GitHub Copilot Chat**

AI chat features powered by Copilot  
GitHub

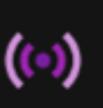
1014ms

⚙️

**Jinja**

Jinja template language support for Visual Studio Code  
wholroyd

⚙️

**Live Server**

Launch a development local Server with live reload feature for static & dynamic pages  
Ritwick Dey

13ms

⚙️

**Pylance**

A performant, feature-rich language server for Python  
Microsoft

⚙️

**Python**

Python language support with extension architecture  
Microsoft

⚙️

**Python Debugger**

Python Debugger extension using debugpy.  
Microsoft

⚙️

**Python Environment Manager (deprecated)**

View and manage Python environments & packages.  
Don Jayamanne

⚙️

**Python Environments**

Provides a unified python environment experience  
Microsoft

⚙️

**Python Extension Pack**

Popular Visual Studio Code extensions for Python

GitHub Copilot Chat to  
use AI to code

Live Server to launch  
the HTML page

linting, formatting, refactoring, unit tests, and more.