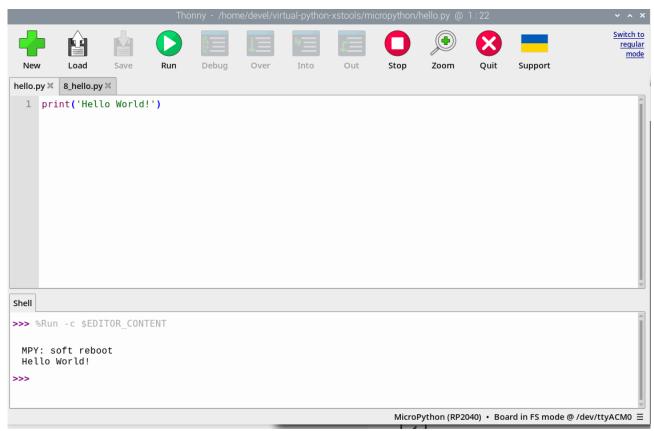
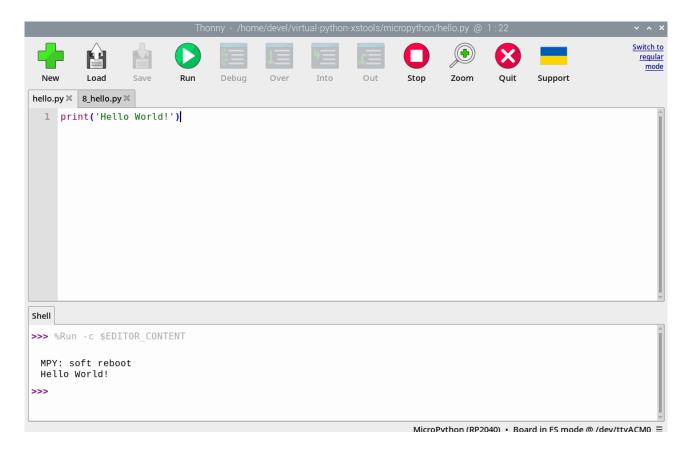
MicroPython Pico 11/09/24

Copied "RPI_PICO-20241025-v1.24.0.uf2" to Raspberry Pico.

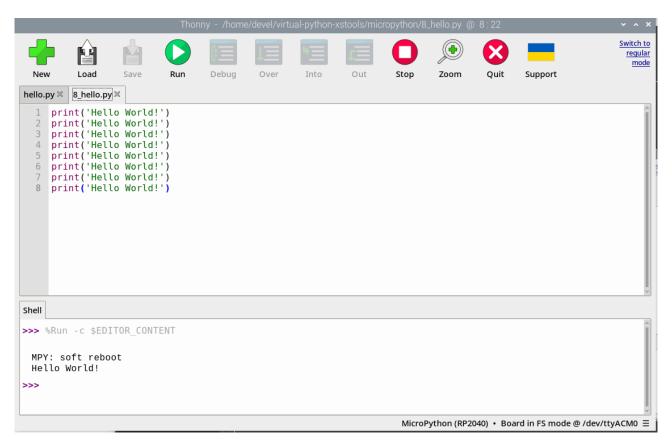
Created first MicroPython program hello.py



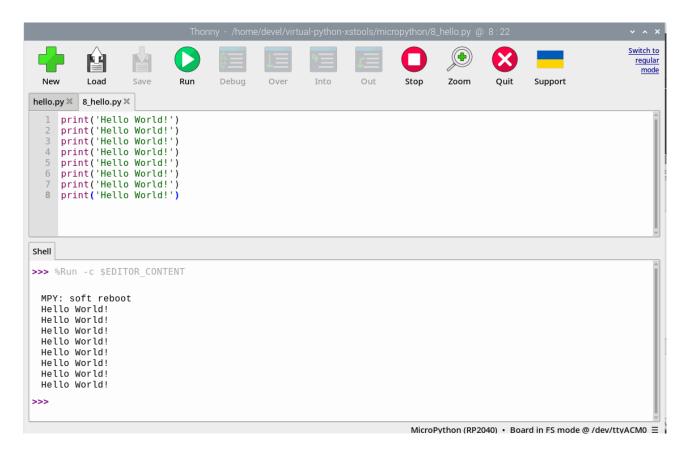
Running MicroPython program hello.py



Modified MicroPython program hello.py 8_hello.py.



Running MicroPython 8_hello.py



Up to now no imports required.

```
devel@pi5-80:~

V A X

File Edit Tabs Help

Welcome to minicom 2.8

OPTIONS: I18n

Port /dev/ttyACM0, 11:26:53

Press CTRL-A Z for help on special keys

MicroPython v1.24.0 on 2024-10-25; Raspberry Pi Pico with RP2040
Type "help()" for more information.

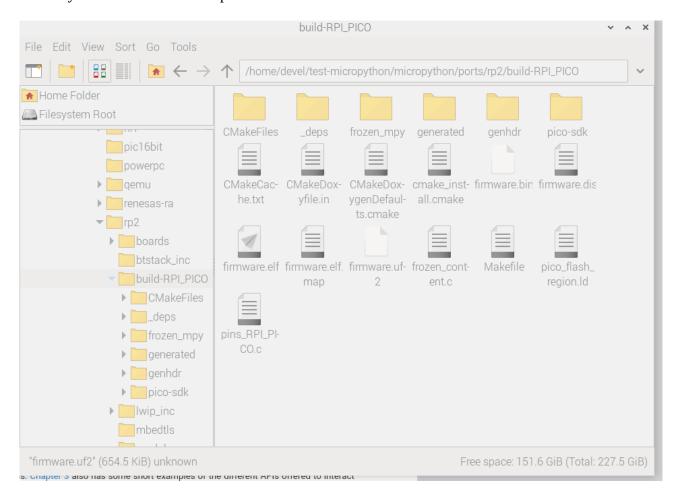
>>> MicroPython v1.24.0 on 2024-10-25; Raspberry Pi Pico with RP2040
Type "help()" for more information.

>>> print('Hello World!')

Hello World!

>>> ■
```

MicroPython variables and simple math.



Built firmware

```
hip
File Edit Tabs Help
                                                                                                PL F
>>> MicroPython v1.24.0 on 2024-10-25; Raspberry Pi Pico with RP2040
Type "help()" for more information.
                                                                                                Pin
>>> MicroPython v1.25.0-preview.20.gdf6b40a87 on 2024-11-07; Raspberry Pi Pico 0
Type "help()" for more information.
                                                                                                to
>>> tools
                                                                                                /thc
Traceback (most recent call last):
File "<stdin>", line 1, in <module>
NameError: name 'tools' isn't defined
>>> a = 10
>>> b = 15
>>> mpy
Fraceback (most recent call last):
File "<stdin>", line 1, in <module>
NameError: name 'mpy' isn't defined
>>> print("Hello, Pico!")
Hello, Pico!
>>> from machine import Pin
>>> led = Pin("LED", Pin.OUT)
                                                                                                t?
>>> led.value(1)
>>> led.value(0)
                                                                                               e M
>>> led.value(1)
                                                                                                e te
>>>
```

Led on pico on/off

Need to learn about RPEL A REPL, or Read-Eval-Print Loop, is :

```
devel@pi5-80:~

File Edit Tabs Help

Welcome to minicom 2.8

OPTIONS: I18n

Port /dev/ttyACM0, 18:16:37

Press CTRL-A Z for help on special keys

MicroPython v1.25.0-preview.20.gdf6b40a87 on 2024-11-07; Raspberry Pi Pico with0
Type "help()" for more information.

>>>

>>> from machine import Pin, Timer

>>> led = Pin("LED", Pin.OUT)

>>> tim = Timer()

>>> def tick(timer):

... global led

... led.toggle()

...

>>> tim.init(freq=2.5, mode=Timer.PERIODIC, callback=tick)

>>> ■
```

Now the led blinks

```
Switch to
                                                                                      regular
  New
           Load
                    Save
                              Run
                                      Debug
                                                Over
                                                          Into
                                                                    Out
                                                                             Stop
                                                                                      Zoom
                                                                                                Quit
                                                                                                        Support
blink-pico.py ⋈
  1 from machine import Pin, Timer
     led = Pin("LED", Pin.OUT)
     tim = Timer()
def tick(timer):
          global led
led.toggle()
    tim.init(freq=2.5, mode=Timer.PERIODIC, callback=tick)
>>> %Run -c $EDITOR_CONTENT
 MPY: soft reboot
>>>
                                                                              MicroPython (RP2040) • Board in FS mode @ /dev/ttyACM0 ≡
```

Thonny now controls pico.