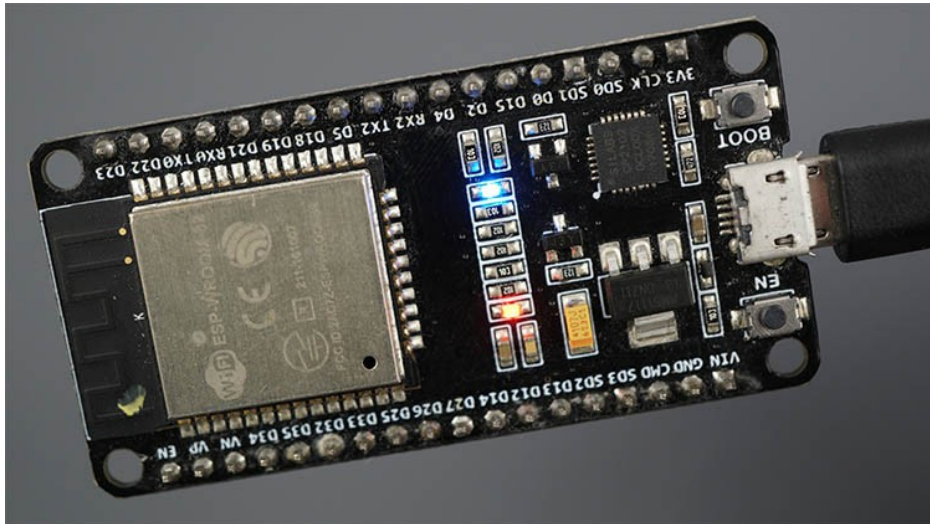EXTRACT ON LOADING MICROPYTHON INTO AN ESP32 NICROCONTROLLER

https://randomnerdtutorials.com/getting-started-thonny-micropython-python-ide-esp32-esp8266/

Downloading MicroPython Firmware

Go to the MicroPython Downloads page: https://micropython.org/download/.
Select the type of board you're using. Here are the quick links for "regular"
ESP32 and ESP8266 boards:

•ESP32 MicroPython firmware
•ESP8266 MicroPython firmware

You should see a similar web page (see figure below) with links to
download `.bin` files. Download the latest release.

Flashing MicroPython Firmware using Thonny IDE

In this section, you'll learn how to flash MicroPython firmware on your boards using Thonny IDE. Follow the next steps:

**1)** Connect your ESP32 or ESP8266 board to your computer.

2) Open Thonny IDE. Go to **Tools** > **Options** > **Interpreter**.

3) Select the interpreter you want to use accordingly to the board you're using and select the COM port your board is connected to. Finally, click on the link **Install or update firmware**.
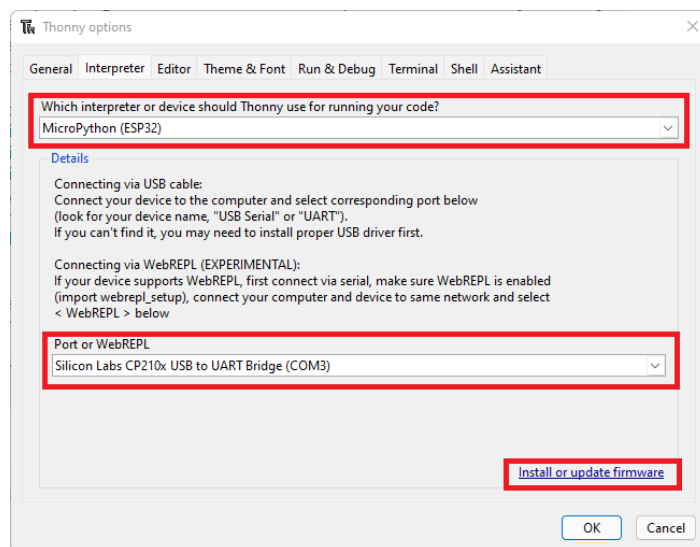
4) Select the port once again, and then click on the **Browse** button to open the `.bin` file with the firmware you've downloaded on the previous step. Select the options as shown in the picture below and finally click on **Install**.
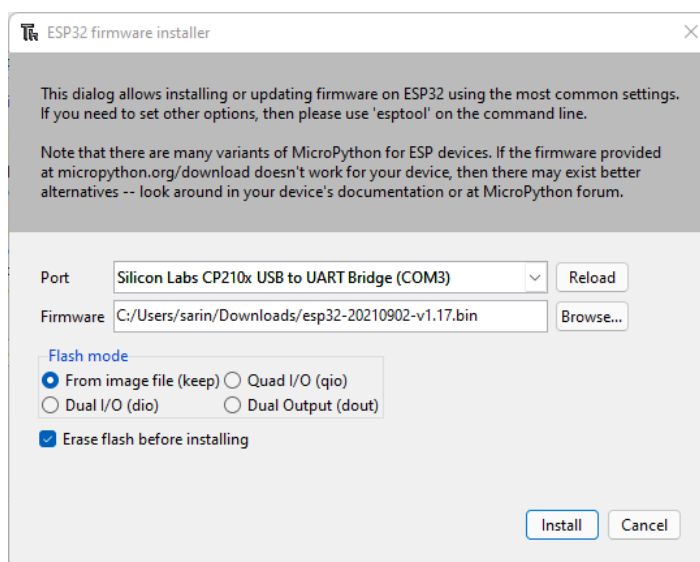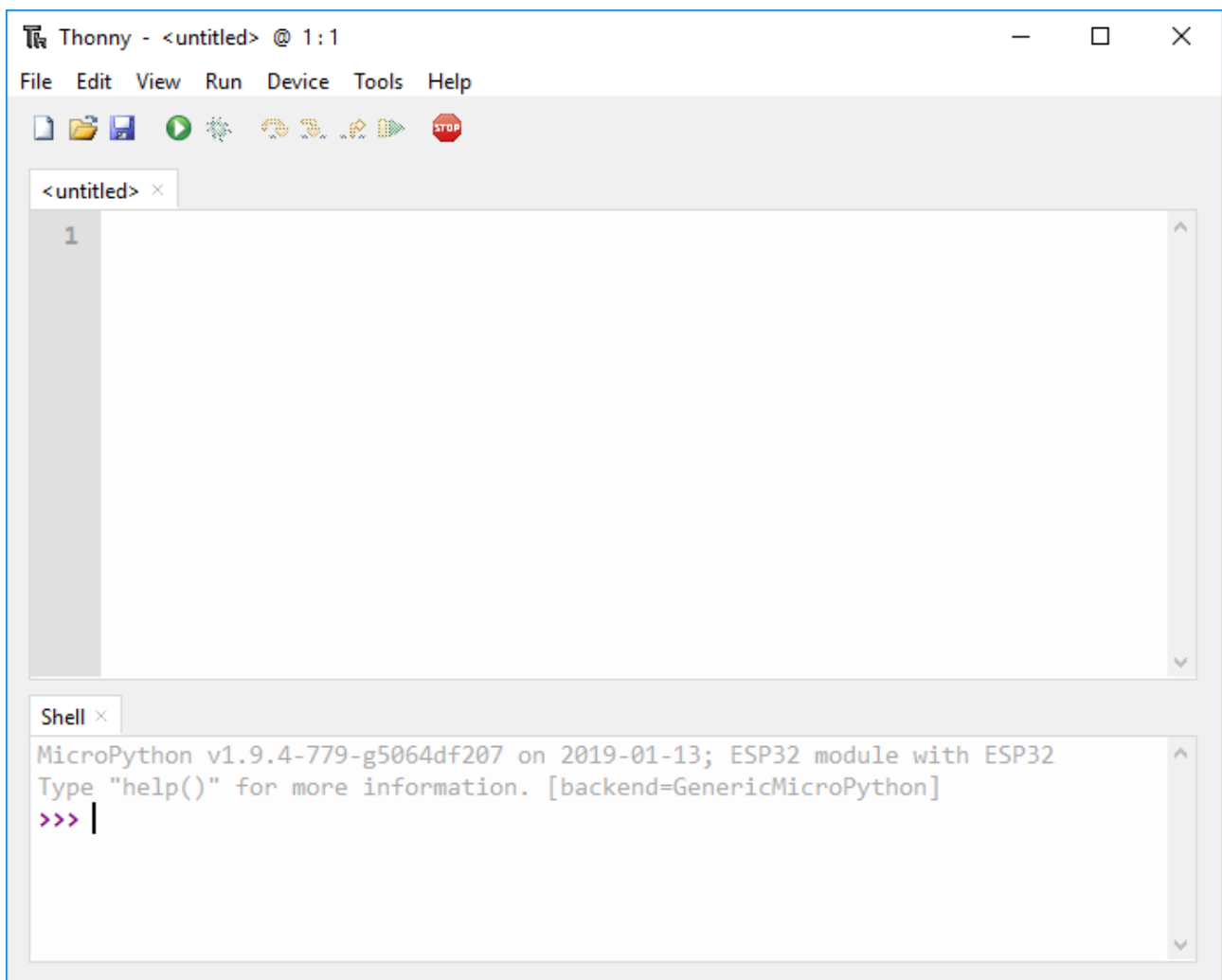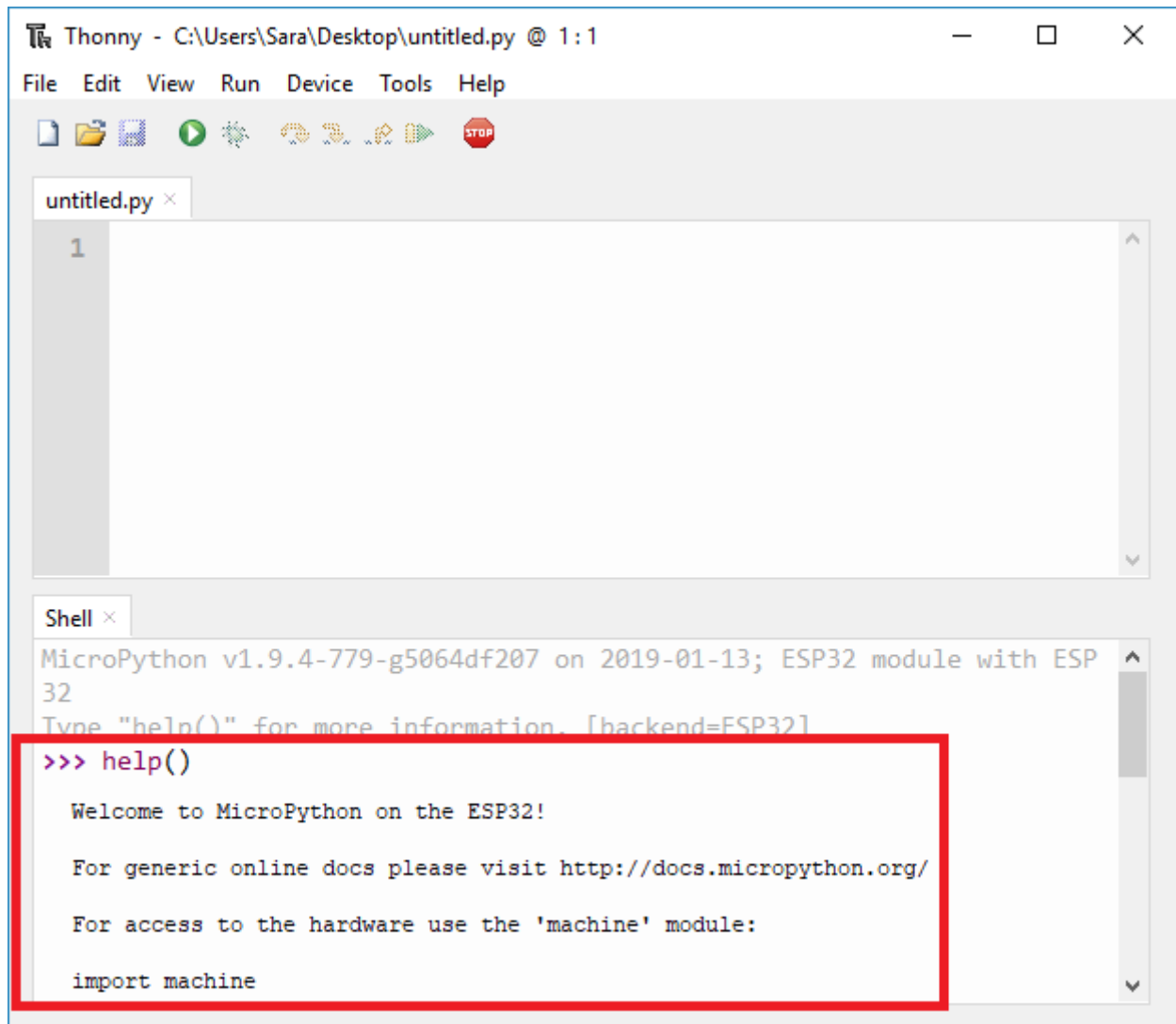
Testing the Installation

Connect the board to your computer using a USB cable. To test the installation, you need to tell Thonny that you want to run MicroPython Interpreter and select the board you are using.

1. Go to **Tools** > **Options** and select the **Interpreter** tab. Make sure you've selected the right interpreter for your board as well as the COM port.
You can also select the "**Try to detect automatically**" option, but *only* if you just have one board connected to your computer at a time. Otherwise, select the specific port for the board you're using.

2. Thonny IDE should now be connected to your board and you should see the prompt on the Shell.

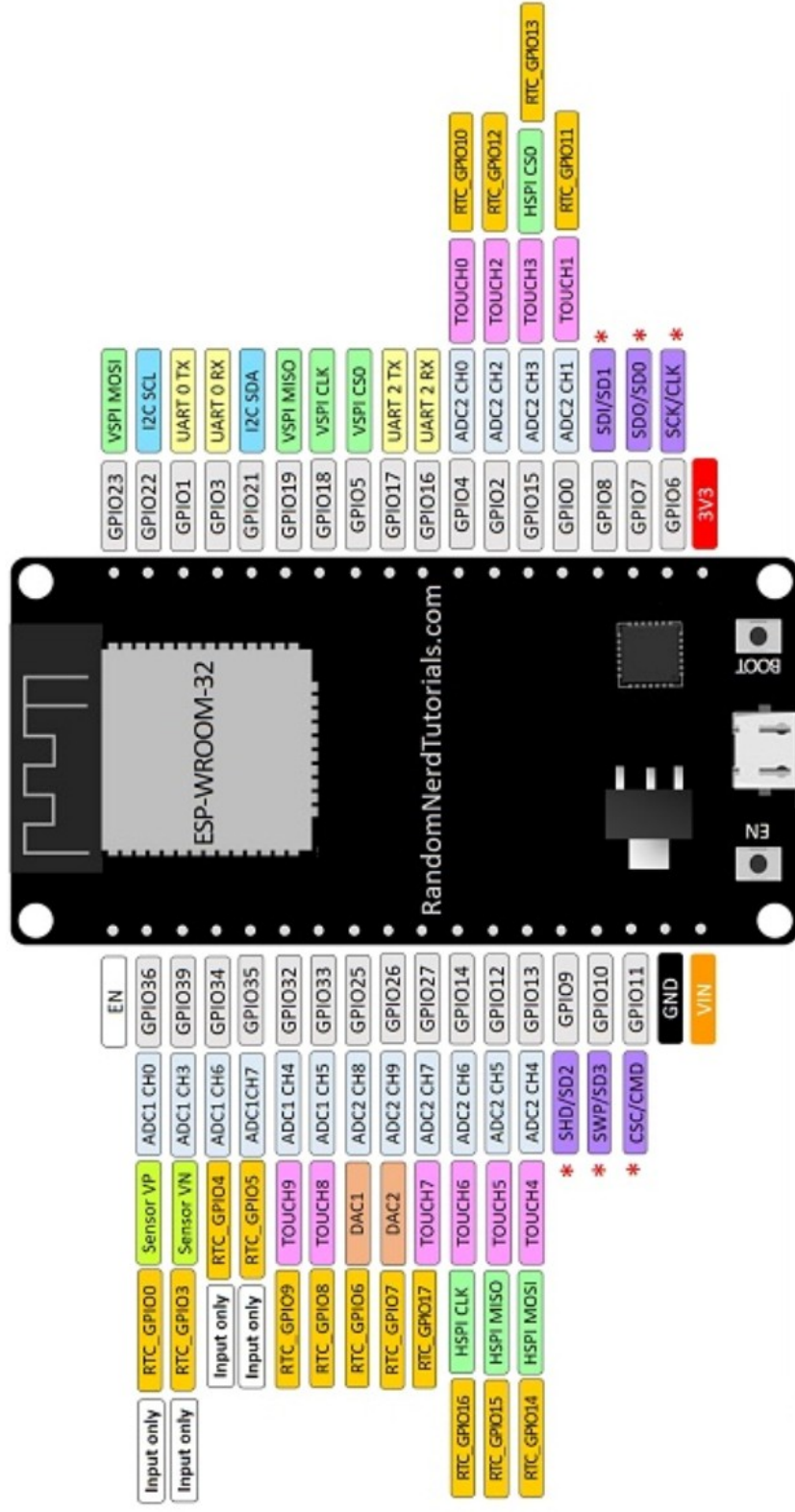**3.** Type the command **help()** in the Shell and see if it responds back.

PINOTS

ESP32 DEVKIT V1 – DOIT
version with 36 GPIOs

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* Pins SCK/CLK, SDO/SD0, SDI/SD1, SHD/SD2, SWP/SD3 and SCS/CMD, namely, GPIO6 to GPIO11 are connected to the integrated SPI flash integrated on ESP-WROOM-32 and are not recommended for other uses.