steps for setting up esp32 using micropython:

1-Download the micropython firmware from micropython.org/download

2-Download and install Anaconda Distribution from anaconda.com

3-Create a virtual environment using the *Anaconda Prompt*

4- Install **esptool** using the Anaconda prompt

5-Install the **SiLabs** driver for the chip

6-Connect the ESP32 to the computer

7-install Thonny IDE to write commands for ESP32

8- in Thonny IDE go to **options** > **interpreter.**

9- Choose the interpreter u want to use depending on your board and then select the **COM port** your board is connected to.

10- Then again from **options** > **interpreter.** in right bottom click on "**install or update firmware**"

11- Select the connected Port , then choose the firmware which we downloaded in *step 1* above.

12- Now We are ready to test our esp32. we can try **help()** command to see if it response or try to send commands to blink the LED light of the board

```
>>> from machine import Pin
>>> Pin(2, Pin.OUT).value(1)
```

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steps for setting up esp32 using Arduino IDE:

1-Download and install Arduino IDE.

2-In Arduino IDE go to ***File*> *preferences*** and in "**Additional Board Manager**

URL” field past this URL
`https://raw.githubusercontent.com/espressif/arduino-esp32/gh-pages/package_esp32_index.json`

3-Open the **Board Manager** from **Tools** and search for ESP32 and install “**ESP32 by Espressif Systems**”.

4-Connect ESP32 into the computer then from **Tools** choose **Board** and then look for your model of ESP32

5- From **Tools** select “**Port**”

6-Now we are Ready