Steps to run and connect ESP32 on Arduino:

*To install the ESP32 board in your Arduino IDE, follow these next instructions:

1- In your Arduino IDE, go to **File> Preferences**

2-Enter the following into the "Additional Board Manager URLs" field

https://raw.githubusercontent.com/espressif/arduino-esp32/gh-pages/package_esp32_index.json

3-Then, click the "OK" button

4-Open the Boards Manager. Go to **Tools > Board > Boards Manager**

5-Search for **ESP32** and press install button for the "**ESP32 by Espressif Systems**

6-That's it. It should be installed after a few seconds

*Plug the ESP32 board to your computer With your Arduino IDE open, follow these steps:

1-Select your Board in **Tools > Board** menu (in my case it's the **DOIT ESP32 DEVKIT V1**)

2-Select the Port (if you don't see the COM Port in your Arduino IDE, you need to install the CP210x USB to UART Bridge VCP Drivers)

3-Open the following example under **File > Examples > WiFi (ESP32) > WiFiScan**

4-A new sketch opens in your Arduino IDE

5-Press the **Upload** button in the Arduino IDE. Wait a few seconds while the code compiles and uploads to your board.

6-If everything went as expected, you should see a "**Done uploading.**" message.

7-Open the Arduino IDE Serial Monitor at a baud rate of 115200

8-Press the ESP32 on-board **Enable** button and you should see the networks available near your ESP32

*connect ESP32 to Arduino :

Open Arduino IDE and select ESP32 Dev Module option under your Arduino IDE > Tools > Board menu.
Now, **plug your ESP32 development board into your computer via micro-B USB cable**. Once the board is plugged in, it should be assigned a unique COM port.