Algorithm **ESP32** on Arduino IDE

1- install the Arduino IDE.

2- In your Arduino IDE go to File => Preferences.

3- In the "Additional Board Manager URLs" Field write this link
https://dl.espressif.com /dl/package_esp32_index.json

then click ok.

4- Open Boards Manager and then go to Tools => Board => Boards Manager.

5- Search for (ESP32) and Press Install button for the (ESP32 by Espressif Systems).

6- Go to esp32 => tools folder and execute (get.exe) to compile ESP32 code.

7- This executable download the Xtensa GNU Tools and ESP32 SDK, and then unzip it to the appropriate location.

8- The D2 pin of the board is connected to the blue LED on the board.

9- Open the Arduino IDE and select the ESP32 Dev Module option under Arduino IDE => Tools => Board menu.

10- connect the ESP32 development board to the computer via micro-B USB cable. Once the board is connected, the communication or COM port must be set. On Windows machines, this will be like COM#, select this serial port under Arduino IDE => Tools => Port menu.