STEPS FOR SETTING UP ESP32 BY USING ARDUINO IDE:

Before we can use the **Arduino IDE** with an **ESP32 board** we need to add the **ESP32 boards** using the **Arduino IDE Board Manager**, in order to be able to work with the **ESP32** you need to add an **additional source** to the **Arduino IDE Board Manager** and then install the **ESP32 boards**.

1.Download the **Arduino IDE** then open it.

2.Click on the **File menu** on the top menu bar.

3.Click on the **Preferences menu item**. This will open a **Preferences dialog box**.

4.You should be on the **Settings tab** in the **Preferences dialog box** by default.

5.Look for the textbox labeled "**Additional Boards Manager URLs**".

6.Paste the following link into the text box (https://dl.espressif.com/dl/package_esp32_index.json).

7.Click the **OK** button to save the setting.

8.Click on the **Tools menu** on the top menu bar.

9.Scroll down to the **Board: entry** (**i.e. Board: Arduino/Genuino Uno**).

10.A submenu will open when you highlight the **Board: entry**.

11.At the top of the submenu is **Boards Manager**. Click on it to open the **Boards Manager dialog box**.

12.Search for "**ESP32**" and press install button for the "**ESP32 by Espressif system**".

13.This will install the **ESP32 boards** into your **Arduino IDE.**

14.Connect **ESP32** into your computer.

15.Click on the **Tools menu** on the top menu bar.

16.Choose **Board** and then look for your model of **"ESP32"**

17.Click on the **Tools menu** on the top menu bar. then select **"Port"**.

18.Now it's ready.