ESP32

Preparing your Arduino IDE:

STEP 1: download and install the Arduino IDE.

STEP 2: Once installed, open the Arduino IDE and go to *Files -> Preferences* to open the preferences window and locate the *"Additional Boards Manager URLs.*

STEP 3: This text box might be empty or might also contain some other URL if you have used it previously for ESP8266.

STEP 4: Now go to *Tools -> Boards -> Board Managers* to open the Board manager window and search for ESP32. If the URL was pasted correctly your window should find the below screen with *Install* button, just click on the Install button and your board should get installed.

Programming ESP32 with Arduino IDE:

STEP 1: Connect your ESP32 board to your computer through the micro-USB cable. Make sure the red LED goes high on the module to ensure power supply.

STEP 2: Start the Arduino IDE and navigate to *Tools -> Boards and select ESP32Dev* board

STEP 3: Open device manager and check to which com port your ESP32 is connected to.

STEP 4: Go back to Arduino IDE and under *Tools -> Port select* the Port to which your ESP is connected to.

STEP 5: Let's upload the Blink Program, to check if we are able to program our ESP32 module.

STEP 6: To upload the code, just click on upload and you should see the Arduino console displaying the ESP32 code if everything works as expected.