**Setup of ESP32 with the Arduino**

**Prerequisites:**

* **Windows based PC/Ubuntu(version > 16.04)**
* **ESP32 Board(WROOM-32)**
* **Arduino IDE(Latest version)**

**Steps:**

* **Install Arduino IDE if not installed.**
* **After installation of Arduino IDE, open the IDE and go to file -> preferences**

Graphical user interface, text, application, email

Description automatically generated



* **Now in the Additional boards manager URLs text box, paste the below links**
  + https://dl.espressif.com/dl/package\_esp32\_index.json, http://arduino.esp8266.com/stable/package\_esp8266com\_index.json

Graphical user interface, text, application, email

Description automatically generated



* **After pasting the URL click on OK.**
* **Now go to Tools->Board->Boards Manager** 
  + **In this board manager, type ESP32 in the text box.**

Graphical user interface, text, application

Description automatically generated

* **It shows esp32 by Espressif systems, select the version (prefer latest one) and then click on install.**
* **It will take some time to install**
  + **After installation, close the window.**
* **This completes the ESP32 installation in the Arduino IDE.**

**Configuration of ESP32 board in Arduino IDE:**

* Once installation is done, Select your **Board** in **Tools > Board -> ESP32 Arduino -> FireBeetle-ESP32.**
* Then next select the **COM port** of your ESP32 in **Tools-> ports.**
* **This completes the ESP32 configuration with Arduino IDE.**
* Now you can write your programs, compile, and flash on ESP32 board through Arduino IDE.