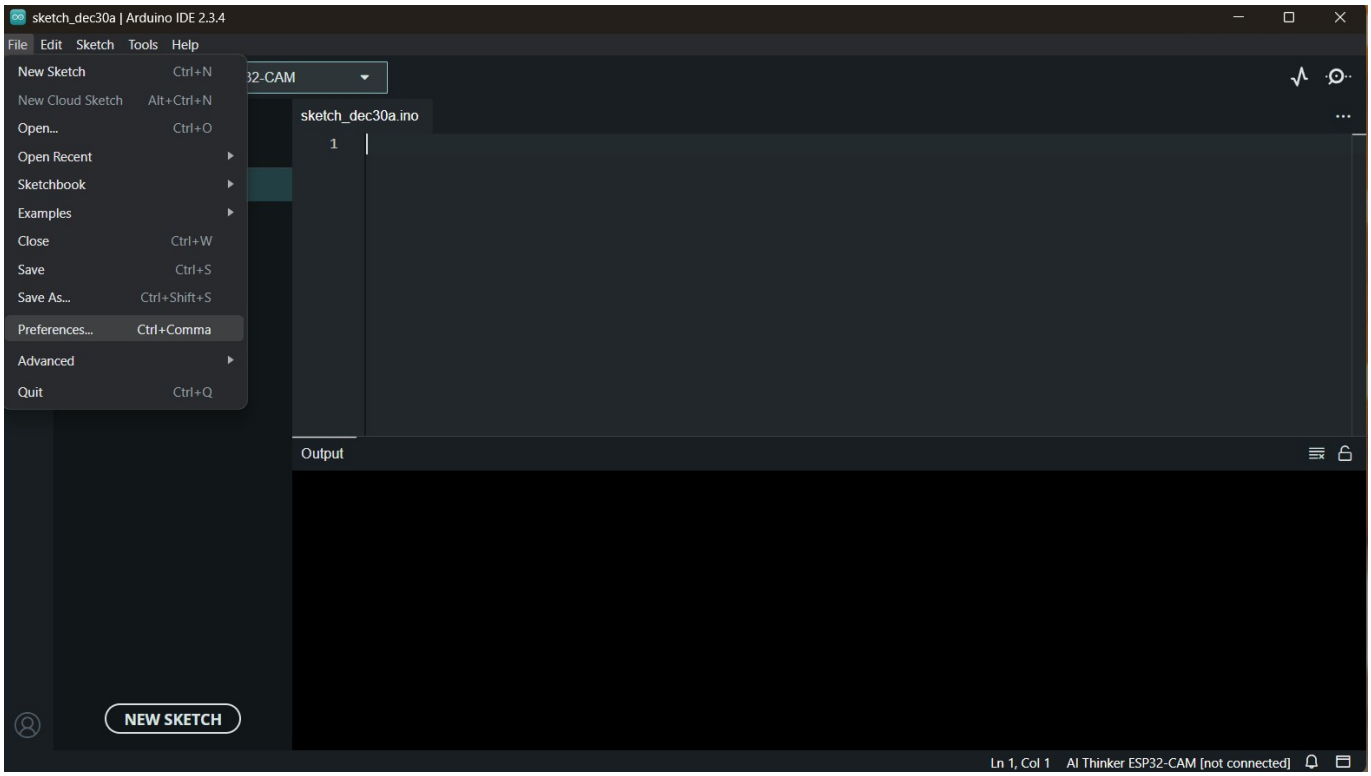
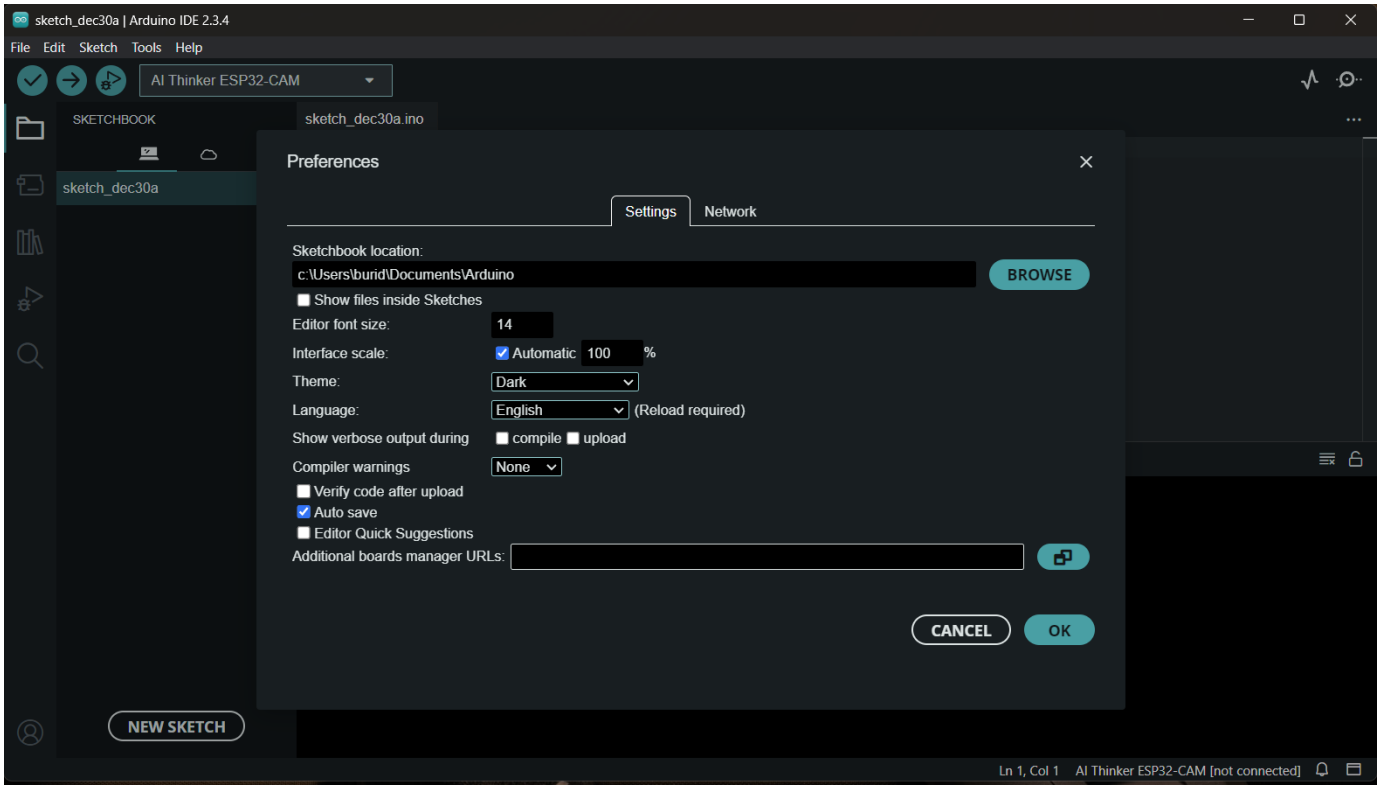
# How to Install Code in ESP32 Cam by Using Arduino Application

Step-by-Step Guide to Install Code in ESP32 Cam

**Step 1:** Configure Additional Board Manager URLs

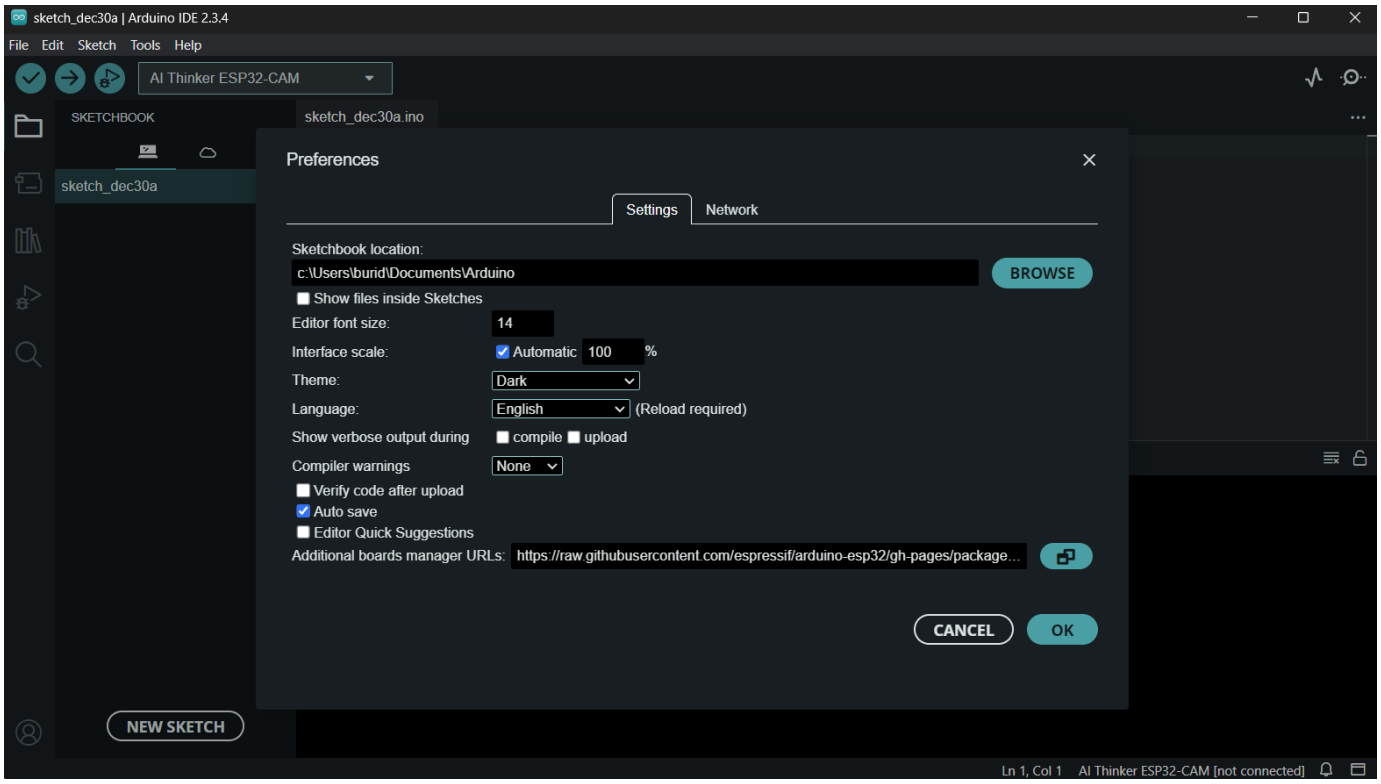
- Open the Arduino IDE.
- **Navigate to File > Preferences.**



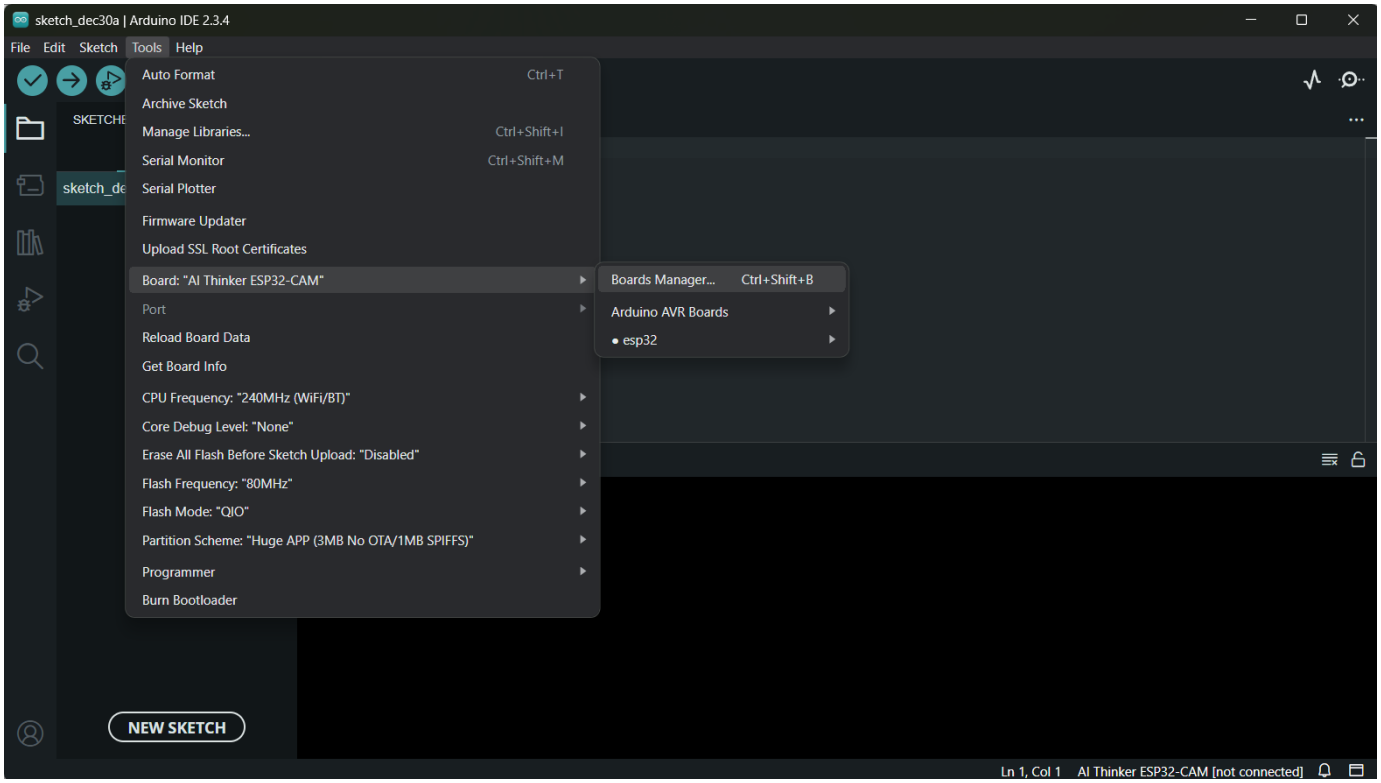



- In the **Additional Boards Manager URLs** field, paste the following link:

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

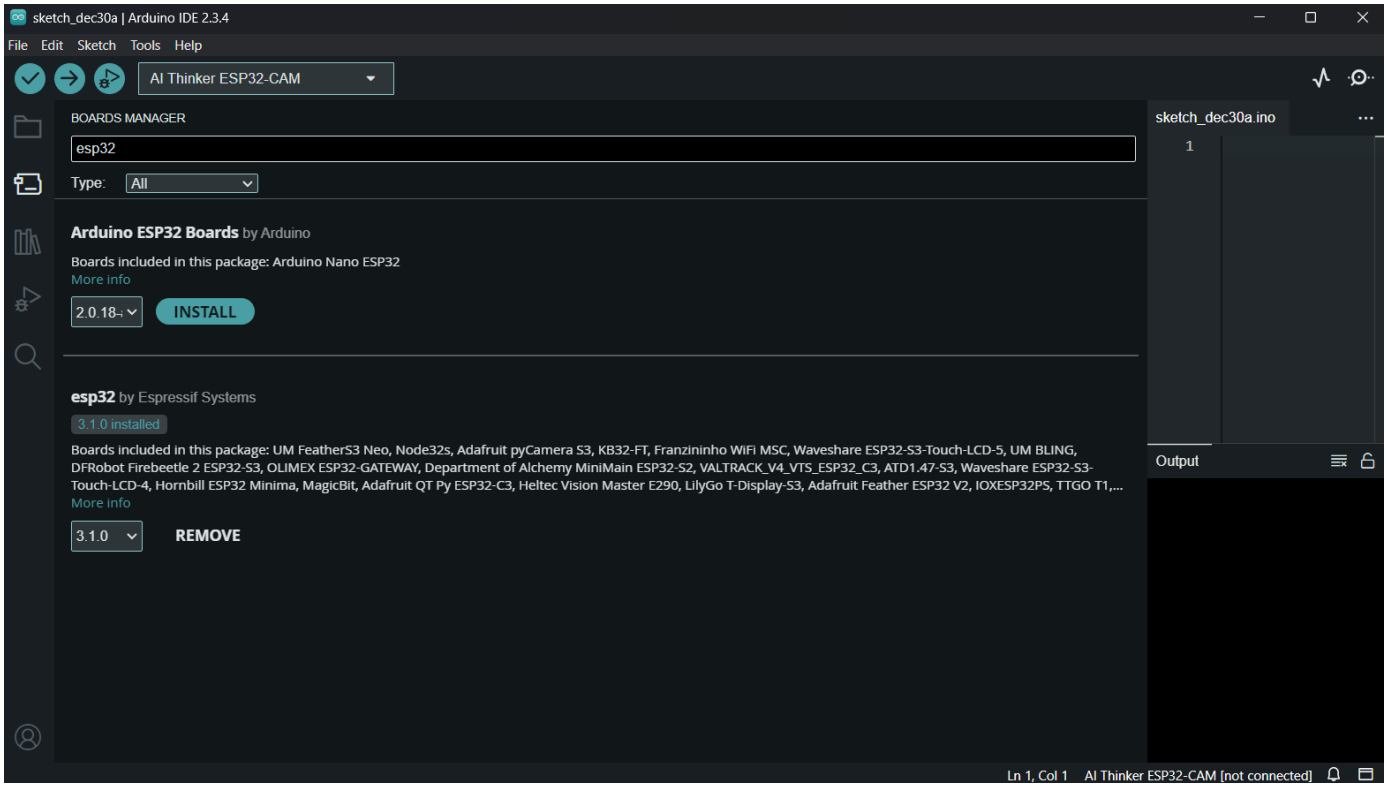



- Click the **OK** button to save your changes.

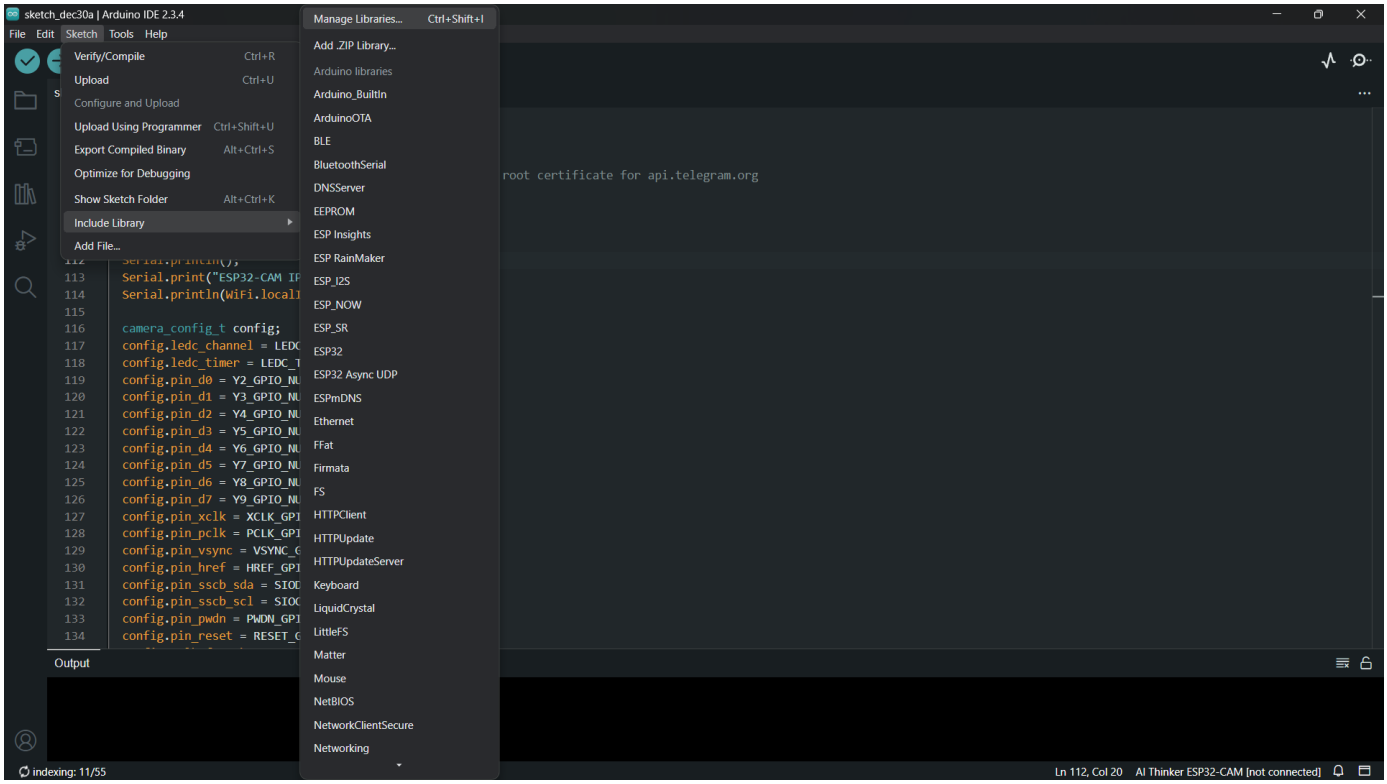



**Step 2:** Install ESP32 Board Package

- **Go to Tools > Board > Boards Manager.**




- In the Boards Manager, type ESP32 in the search bar.
- Look for ESP32 by Espressif Systems and click on the Install button.

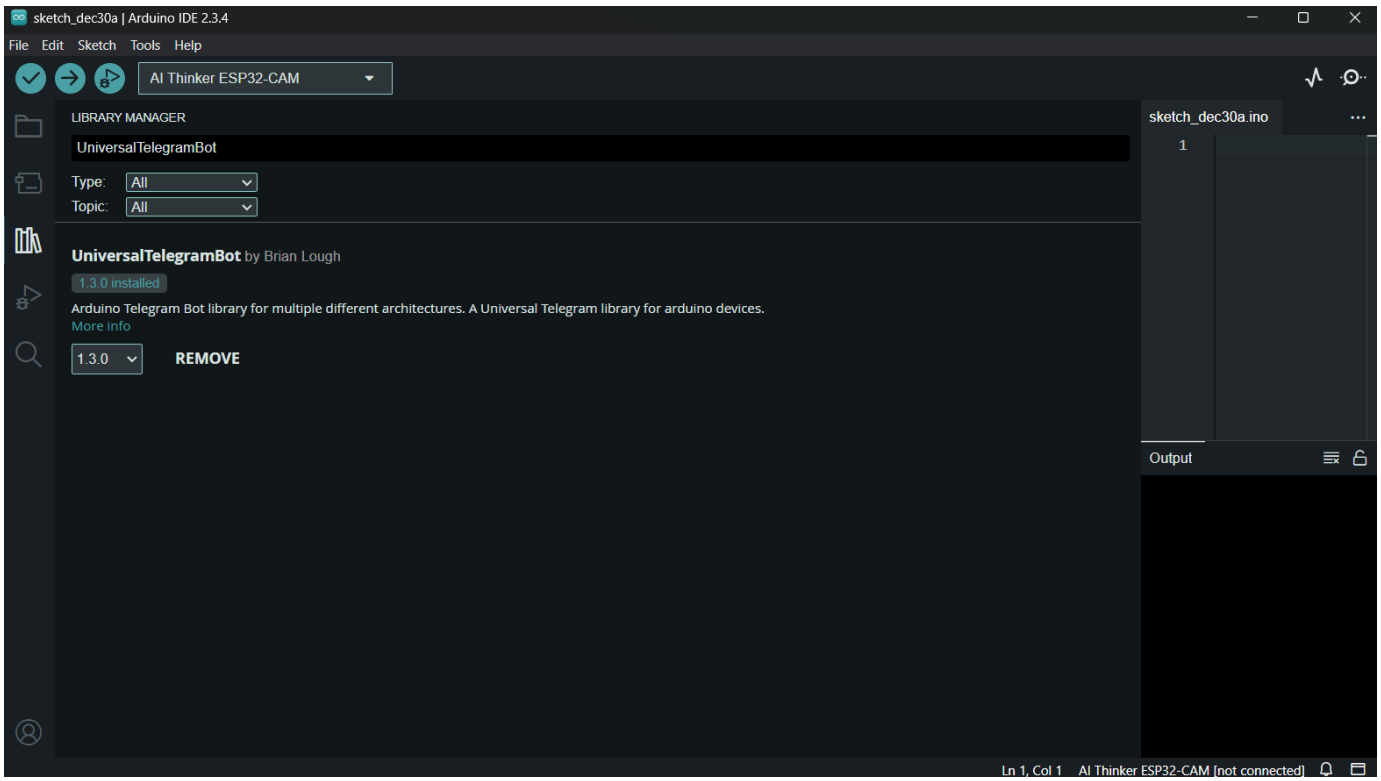



**Step 3:** Install Required Libraries

You will need to install several libraries to work with the ESP32 Cam. Follow these steps for each

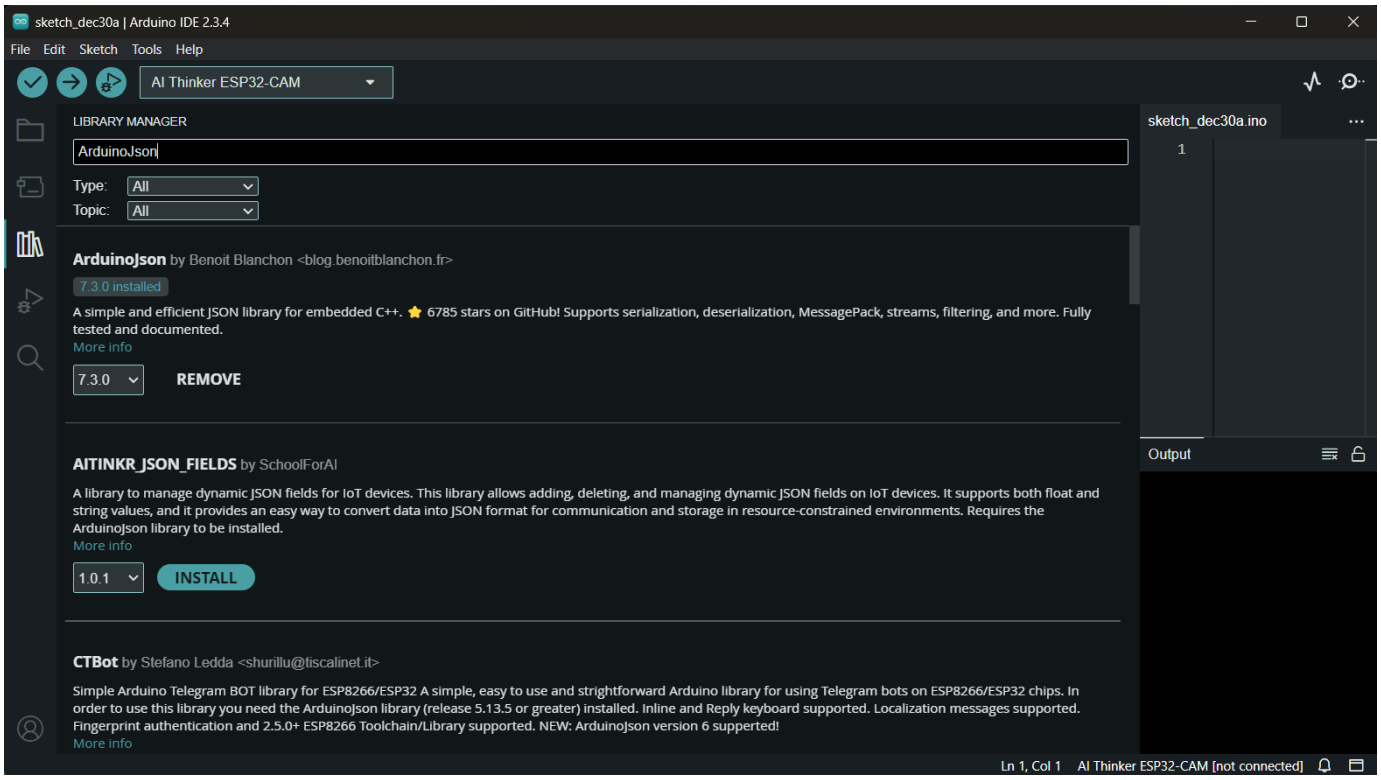
**Universal Telegram Bot Library**

- **Navigate to Sketch > Include Library > Manage Libraries.**
- In the Library Manager, search for UniversalTelegramBot.
- Click on the Install button next to it.



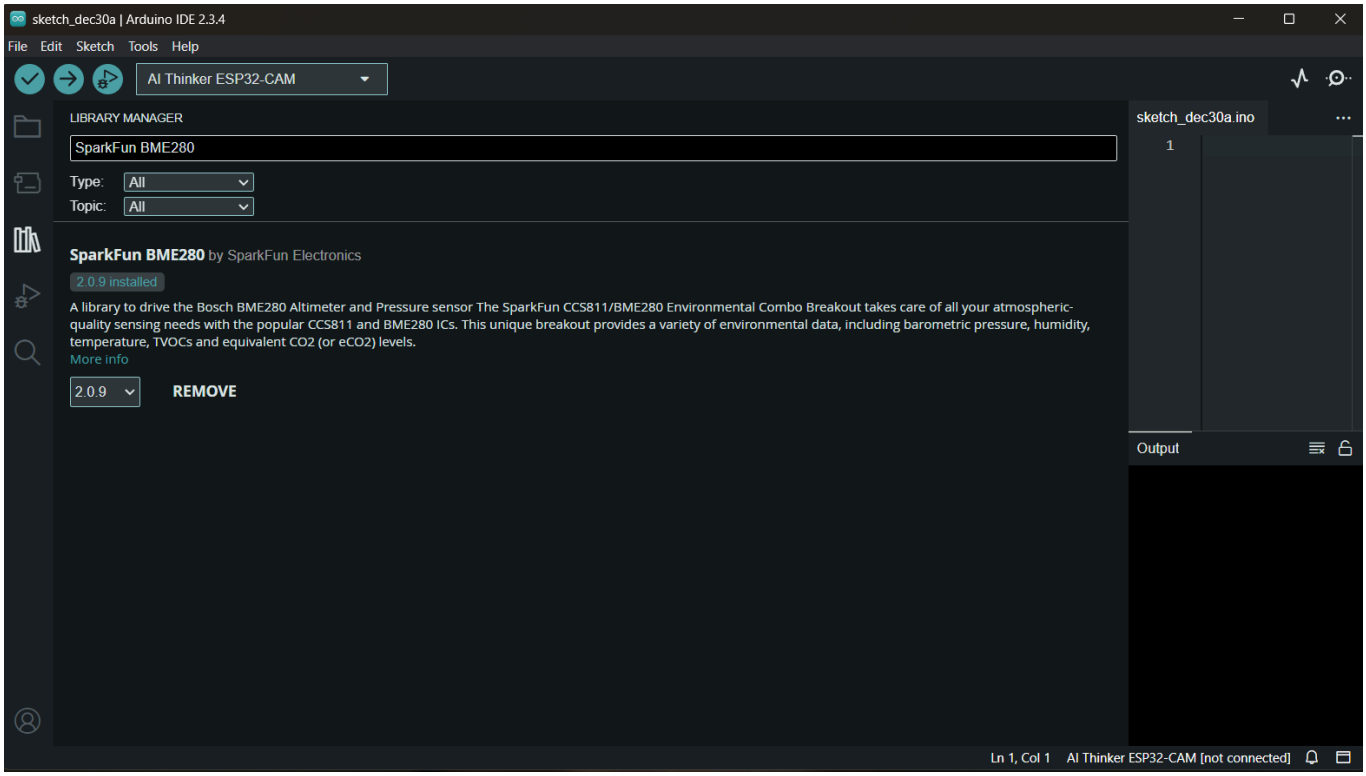

## ArduinoJson Library

- Again, go to **Sketch > Include Library > Manage Libraries**.
- Search for **ArduinoJson** in the Library Manager.
- Click on the **Install** button.



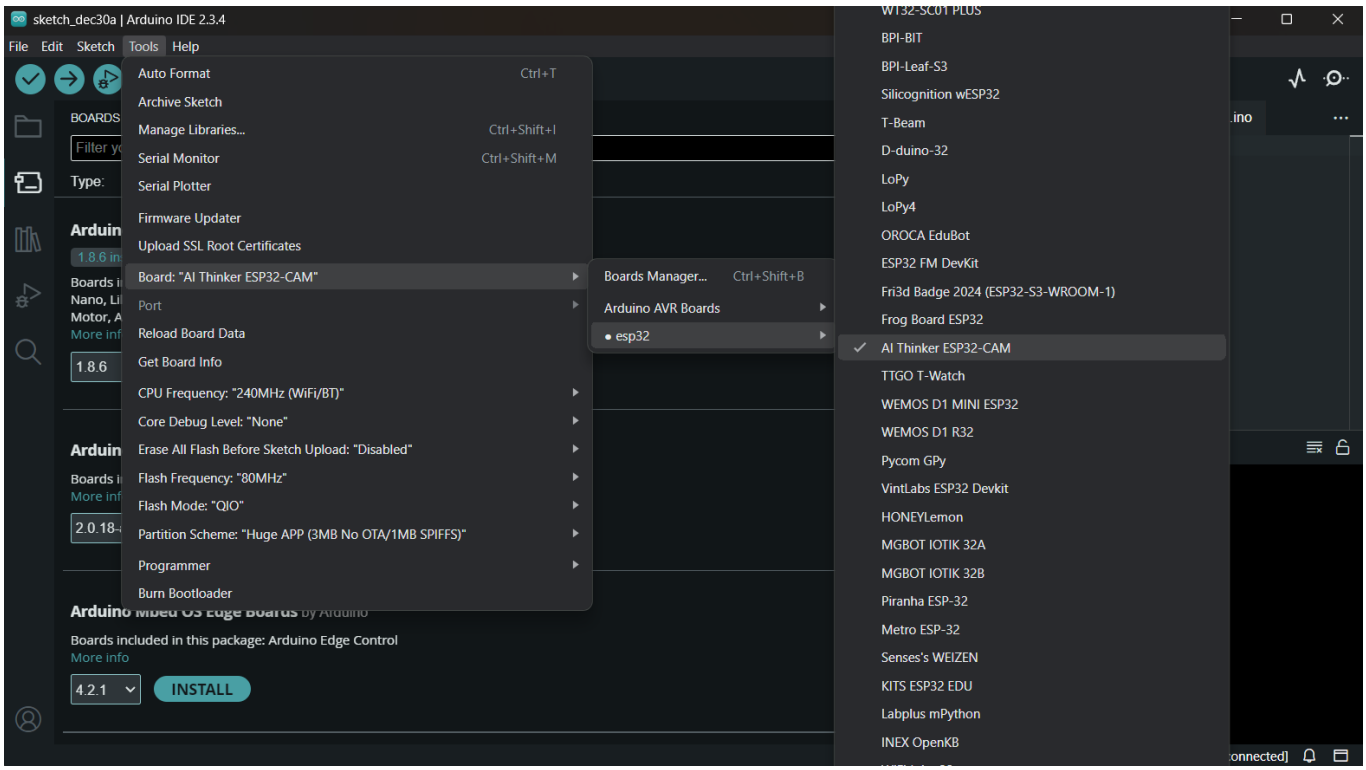
### SparkFun BME280 Library

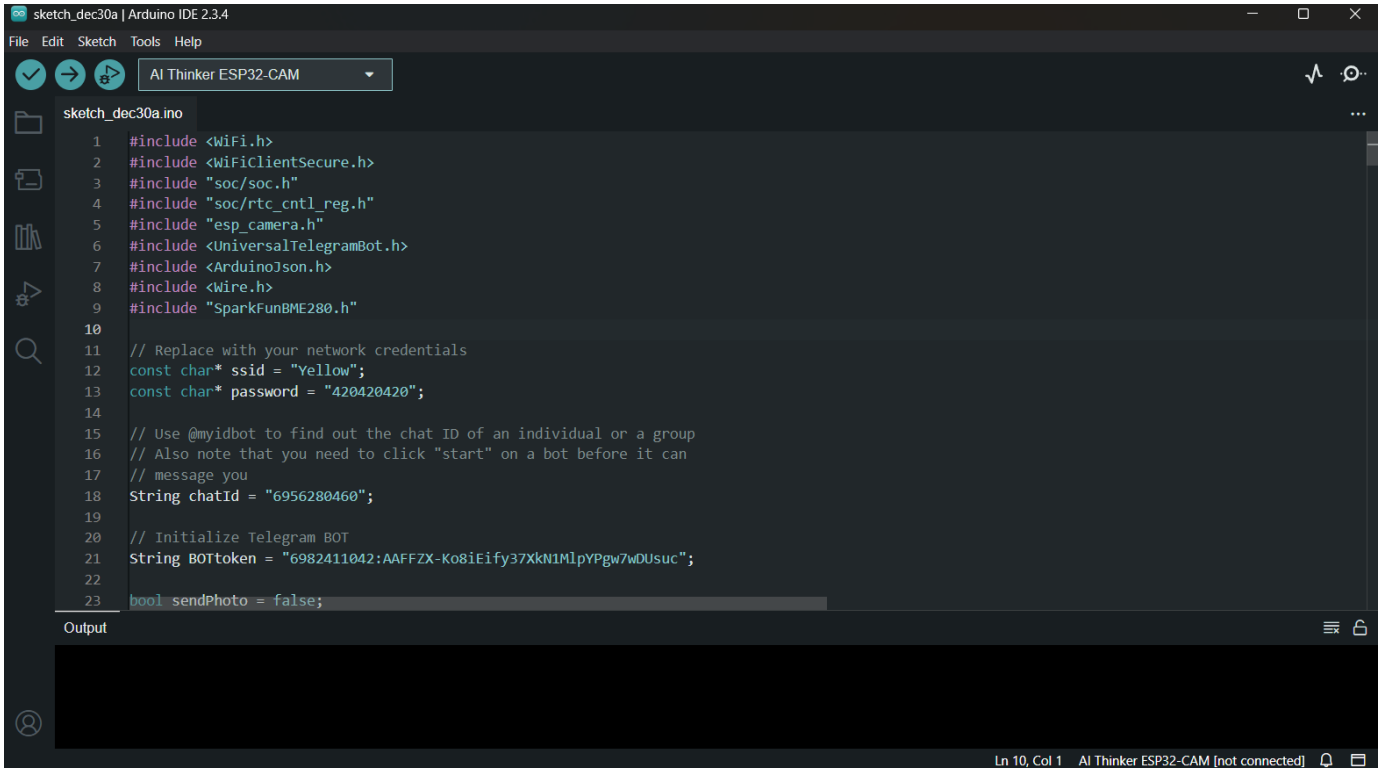
- Once more, go to **Sketch > Include Library > Manage Libraries**.
- Search for **SparkFun BME280**.
- Click on the **Install** button.




**Step 4:** Select the Correct Board

- Go to **Tools > Board**, and select **AI Thinker ESP32 Cam** from the list.






## Step 5: Upload Your Code

- Copy and paste your code from a GitHub link or your source into the Arduino IDE.

https://github.com/Buridi-Vishnu-Kanth/Smart-Surveillance-System-Using-IOT-and-Telegram-Bot/blob/main/ESP32.ino

- Click on the checkmark icon (✓) to verify your code. This will compile it and check for errors.
- Once compilation is complete, you will see output in the console indicating success or any errors that need addressing.