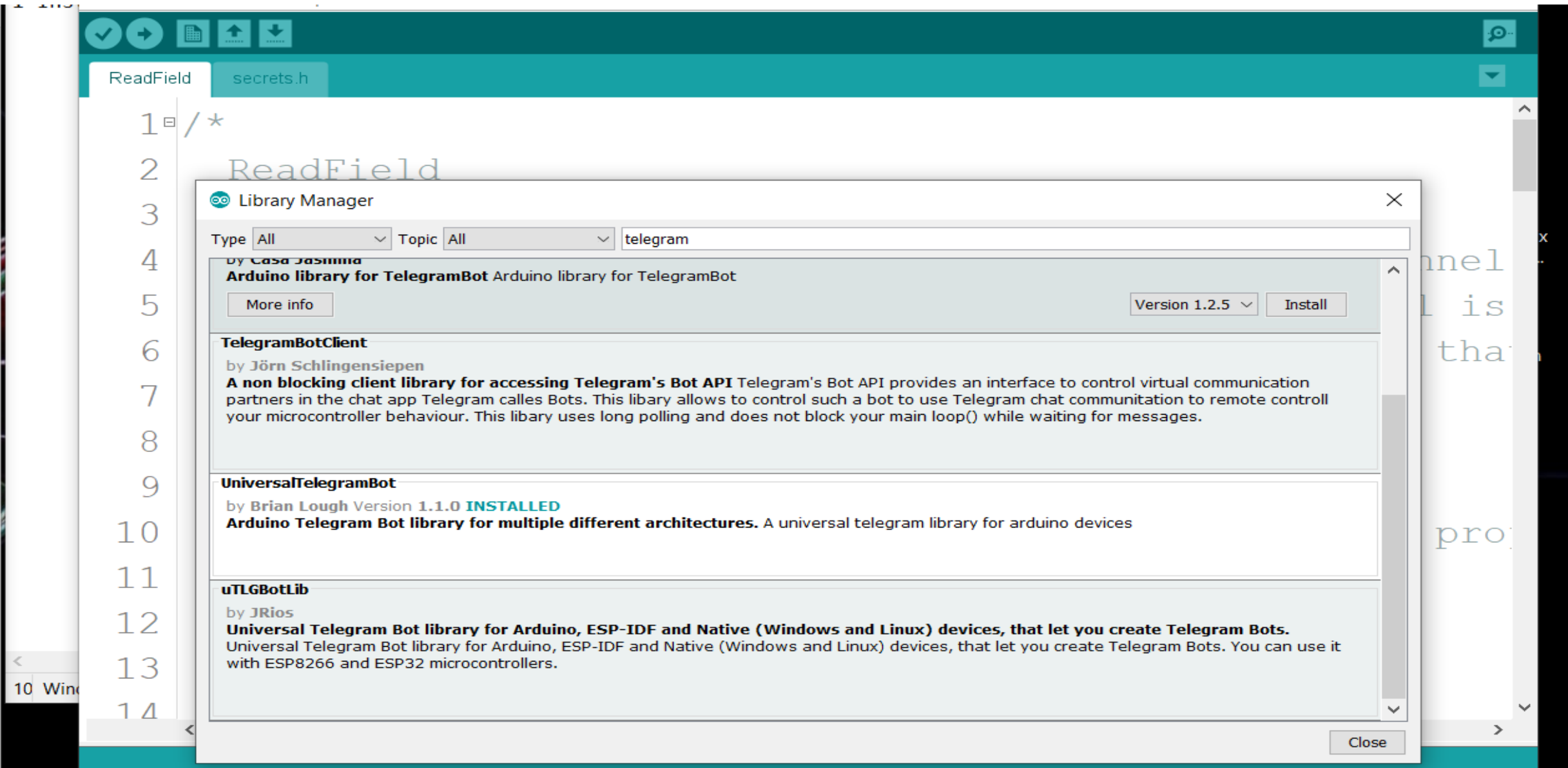




# *HOME AUTOMATION USING TELEGRAM*

***RAJA RISHAV THAKUR***

# Installation of telegram library

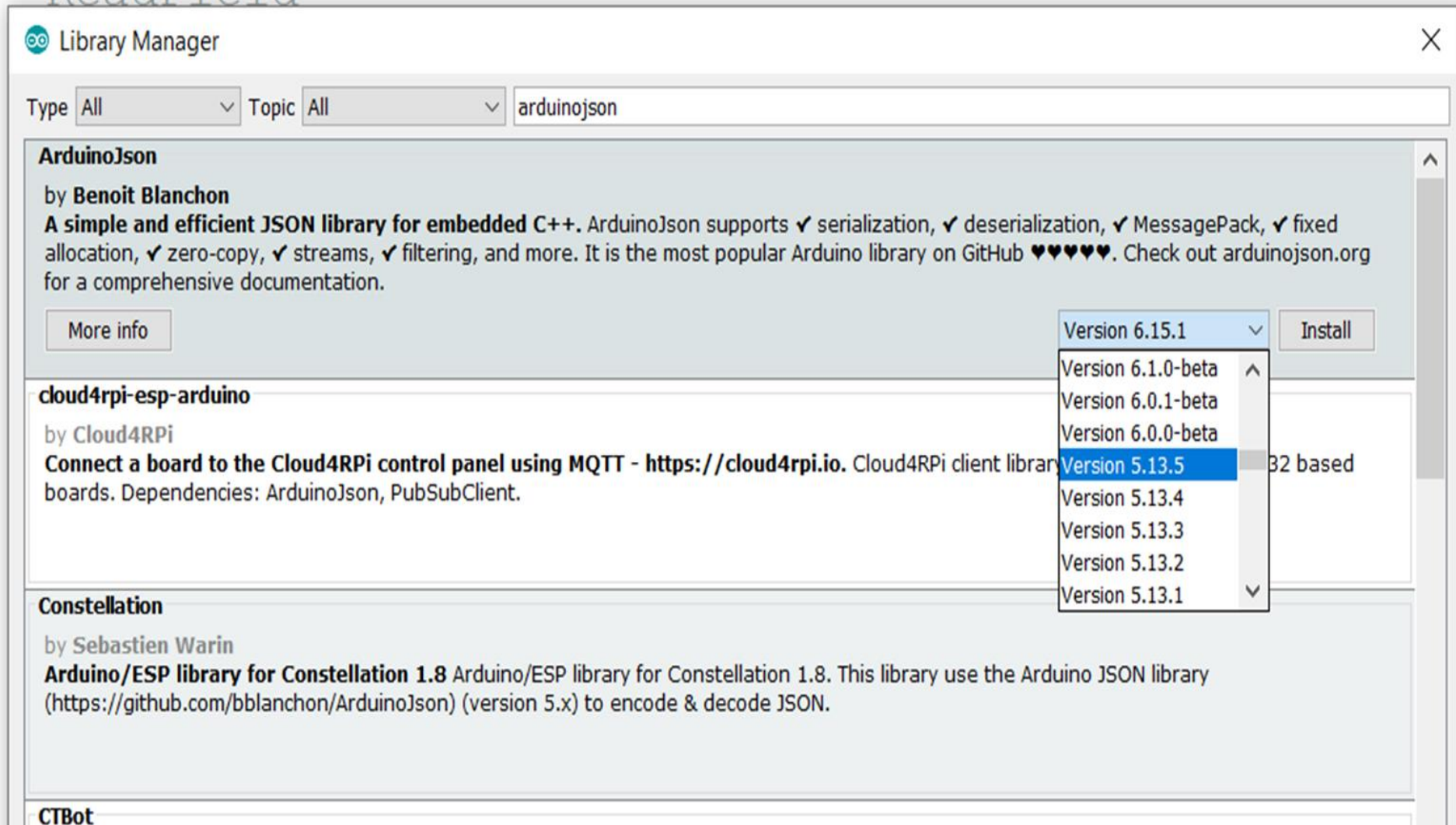


The screenshot shows the Arduino IDE interface with the Library Manager open. The background code in the editor shows a file named `secrets.h` with a line `1 // *` and the text `ReadField` on line 2. The Library Manager window is titled "Library Manager" and has a search bar containing the word "telegram". Below the search bar, there are four library entries:

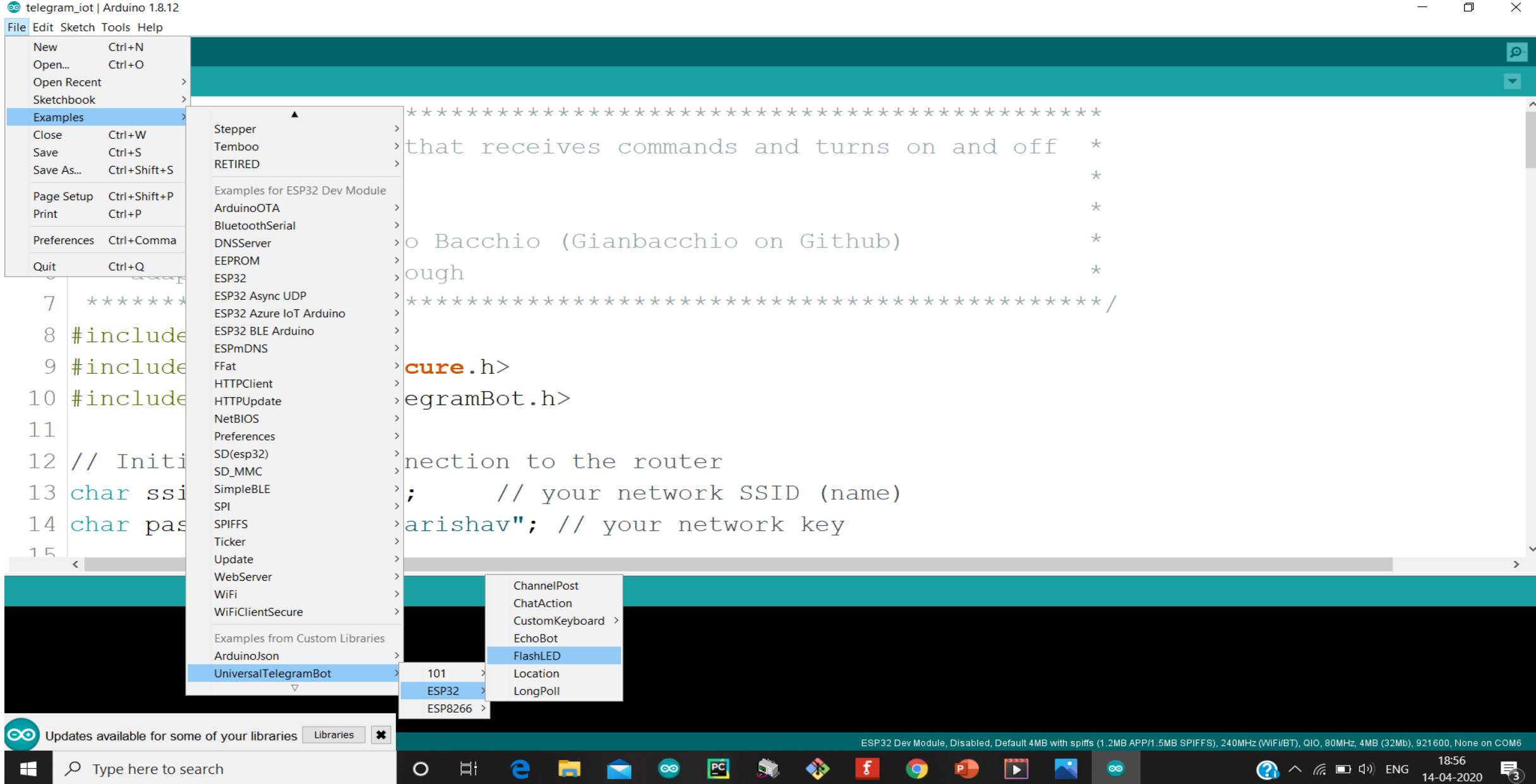
- Arduino library for TelegramBot** by Casa Jasmina. It has a "More info" button and a "Version 1.2.5" dropdown with an "Install" button.
- TelegramBotClient** by Jörn Schlingensiepen. The description states: "A non blocking client library for accessing Telegram's Bot API. Telegram's Bot API provides an interface to control virtual communication partners in the chat app Telegram called Bots. This library allows to control such a bot to use Telegram chat communication to remote control your microcontroller behaviour. This library uses long polling and does not block your main loop() while waiting for messages."
- UniversalTelegramBot** by Brian Lough. It is marked as "Version 1.1.0 INSTALLED". The description states: "Arduino Telegram Bot library for multiple different architectures. A universal telegram library for arduino devices".
- uTLGBotLib** by JRios. The description states: "Universal Telegram Bot library for Arduino, ESP-IDF and Native (Windows and Linux) devices, that let you create Telegram Bots. Universal Telegram Bot library for Arduino, ESP-IDF and Native (Windows and Linux) devices, that let you create Telegram Bots. You can use it with ESP8266 and ESP32 microcontrollers."

The Library Manager window has a "Close" button at the bottom right.

# Installation of arduinojson library (Version 5.13.5)



# Example in Arduino IDE





# Edit in program

telegram\_iot | Arduino 1.8.12

File Edit Sketch Tools Help

```
telegram_iot
10 #include <UniversalTelegramBot.h>
11
12 // Initialize Wifi connection to the router
13 char ssid[] = "          "; // your network SSID (name)
14 char password[] = "          "; // your network key
15
16 // Initialize Telegram BOT
17 #define BOTtoken "7...36:AAF...3Q" // your Bot Token (Get from Botfather)
18
19 WiFiClientSecure client;
20 UniversalTelegramBot bot(BOTtoken, client);
21
22 int Bot_mtbs = 1000; //mean time between scan messages
23 long Bot_lasttime; //last time messages' scan has been done
24 bool Start = false;
```

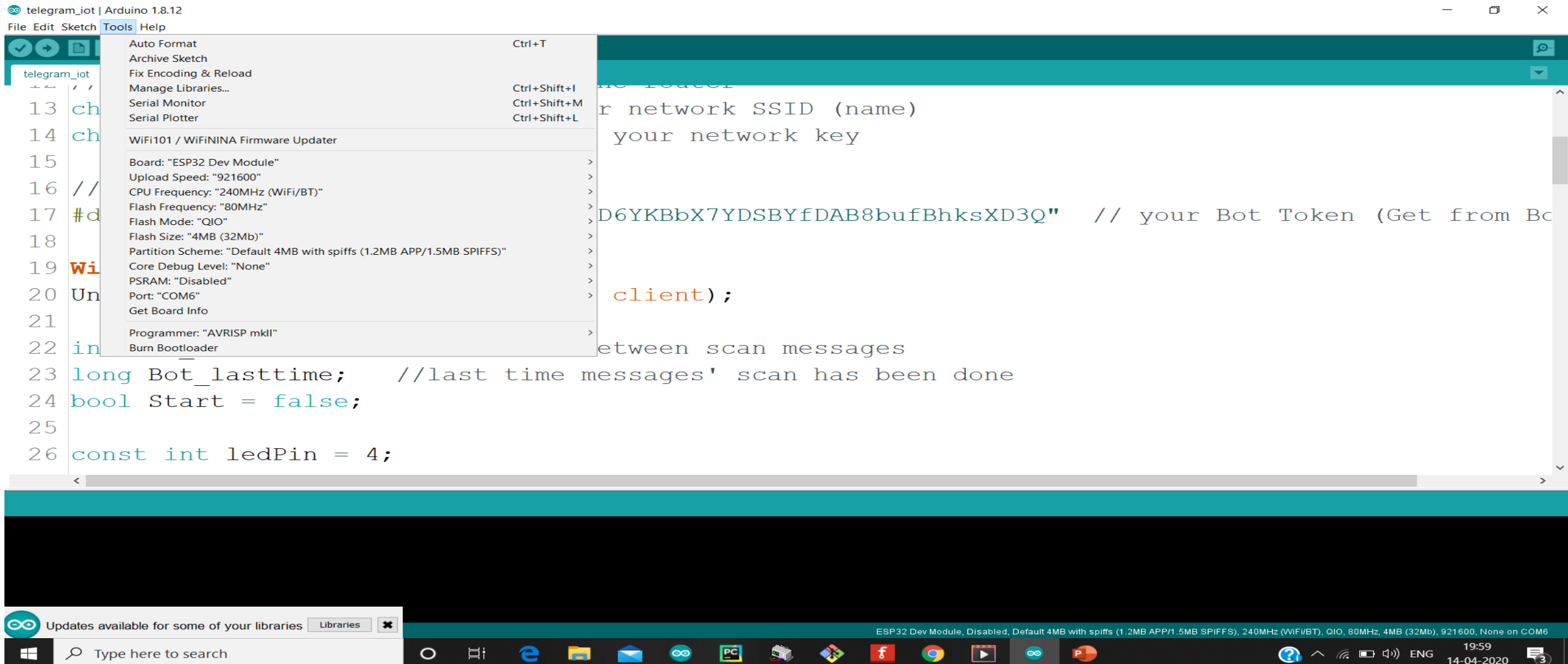
Updates available for some of your libraries Libraries ✕

Type here to search

ESP32 Dev Module, Disabled, Default 4MB with spiiffs (1.2MB APP/1.5MB SPIFFS), 240MHz (WIFI/BT), QIO, 80MHz, 4MB (32Mb), 921600, None on COM6

# Program Uploading

- Press the BOOT button of ESP32 during uploading of program



# Telegram setting

