CANSAT Guidebook



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# Preparation

In this part you can only doing it only one time per PC and you must do this before go to setup part

## Hardware Preparation

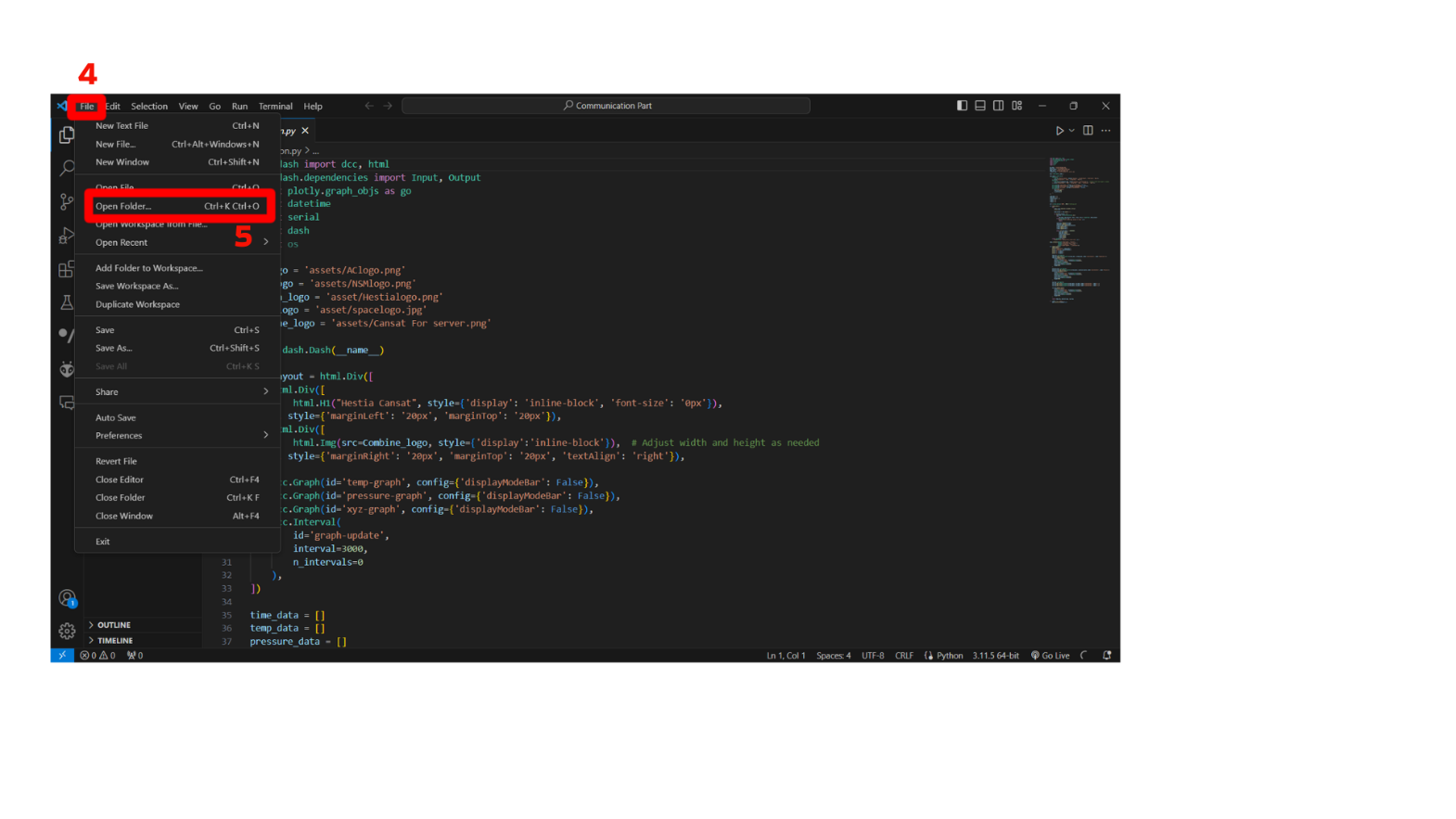
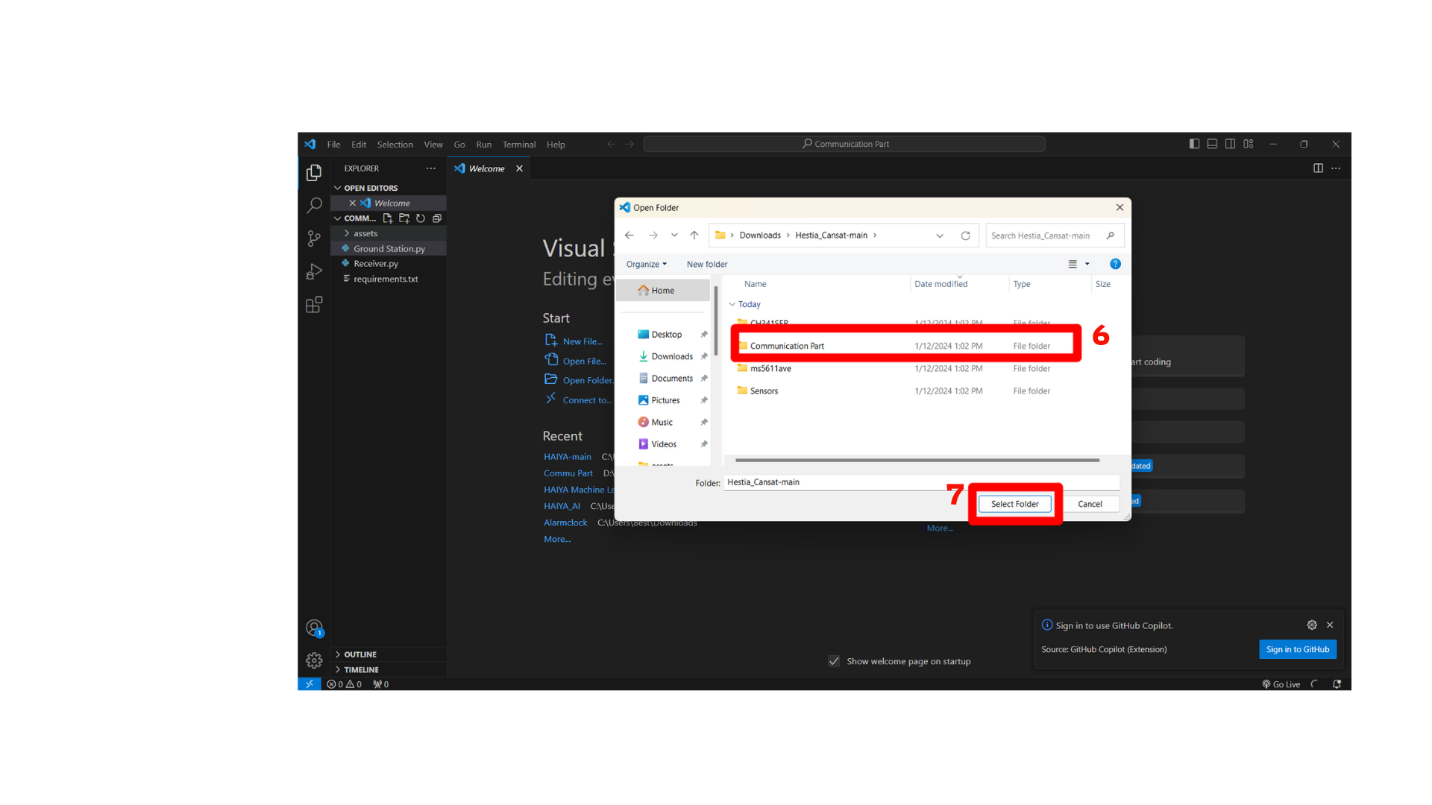
1. Check and count body part in the package (Number 1-\_\_)
2. J
3. J
4. J
5. J
6. J
7. J
8. J
9. J

## Software Preparation

1. Install [Arduino IDE](https://www.arduino.cc/en/software)
2. Open Arduino IDE
3. Search and Install libraries by selecting library manager on the left side

* “MS5611 by Rob Tillaart [rob.tillaart@gmail.com](mailto:rob.tillaart@gmail.com) ”
* “MPU6050 by Electronic Cats”
* “Adafruit GFX Library by Adafruit”
* “Adafruit SSD1306 by Adafruit”
* “LoRa by Sandeep Mistry <Sandeep.mistry@gmail.com>”

## Communication Preparation

1. Install [Visual Studio Code](https://code.visualstudio.com/download)
2. Install [Python](https://www.python.org/downloads/)
3. Open Visual Studio Code
4. Click “file” at the left corner
5. Select “open folder” or you can open by use “Ctrl + Shift + O”
6. Navigate file “Communication Part” to the workspace
7. Click “Select”
8. Open the terminal bar in the app
9. Install library by type command “pip install -r requirements.txt”

# Setup

## Mechanical Part

1. How to setup CANSAT
2. Assemble a 1 to 3

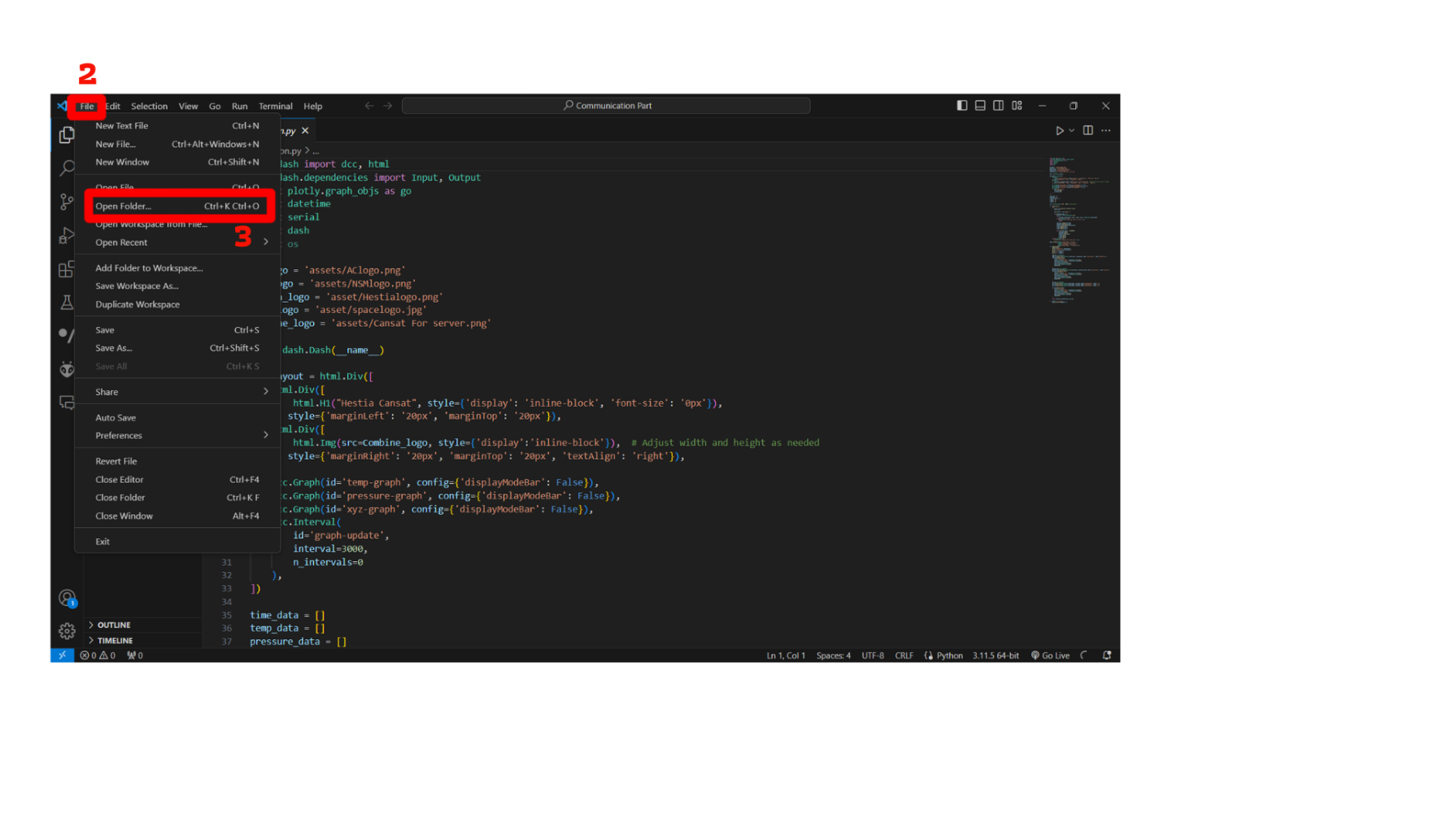
## Programming Part

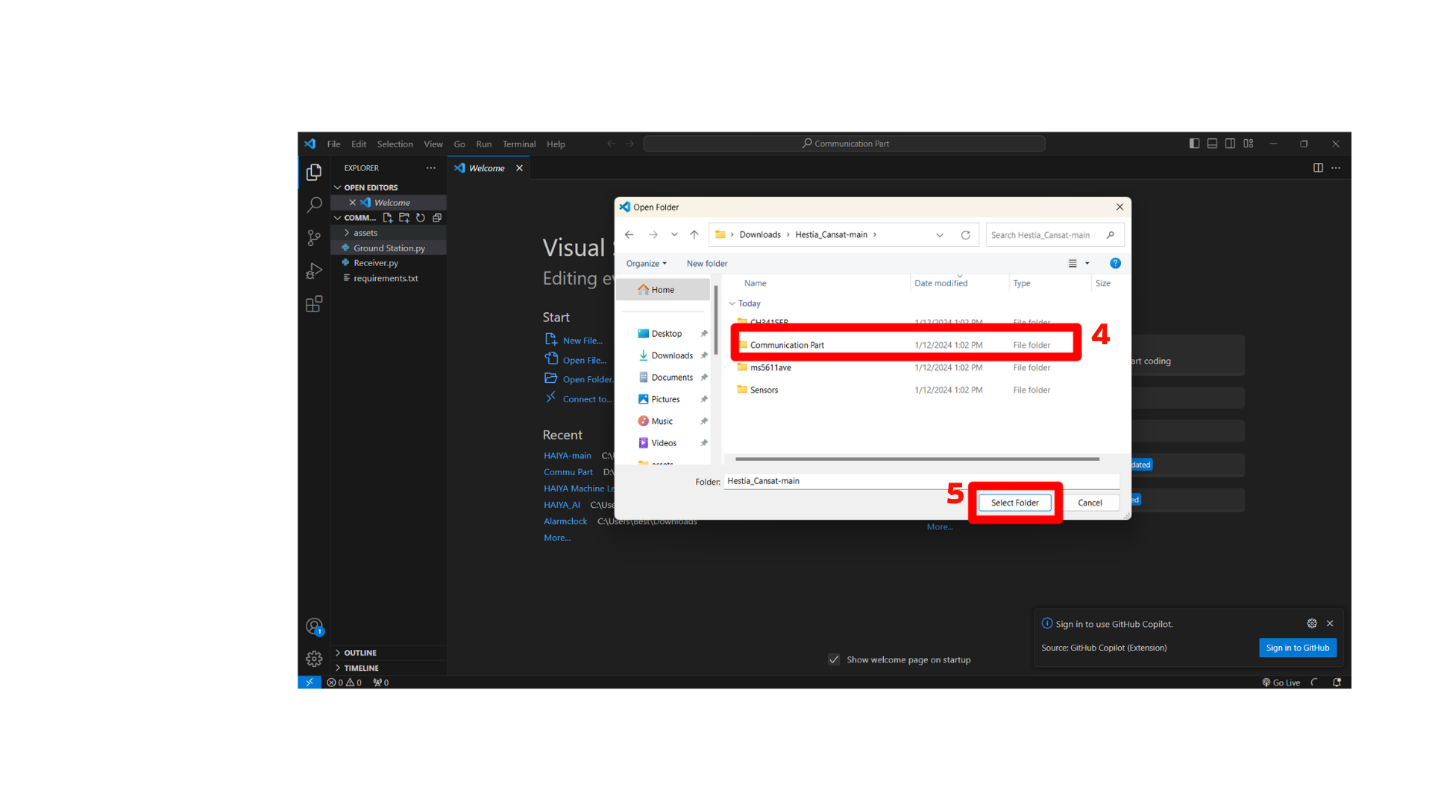
1. Open Arduino IDE
2. Click file at the top left corner
3. Select open… or Press ctrl + O
4. Select “Transmittercansat.ino”
5. Connect the USB Cable to the board and Computer
6. Select “Atmel atmega328pb Xplained mini” board and port (depends on the computer COM Port)
7. Verify code
8. Upload code

When you upload the code You can connect with powerbank or other power supply

## Communication Part

1. Open the program ”Visual Studio code”
2. Click “file” at the left corner
3. Select “open folder” or you can open by use “Ctrl + Shift + O”
4. Navigate file “Communication Part” to the workspace
5. Click “Select”
6. Select file “Ground Station.py”
7. Open Terminal
8. Find the “Setting port and Baud rate”
9. Edit setting port and baud rate
10. Run the file
11. Open the link in the terminal
12. Wait for 10 second for calibrate

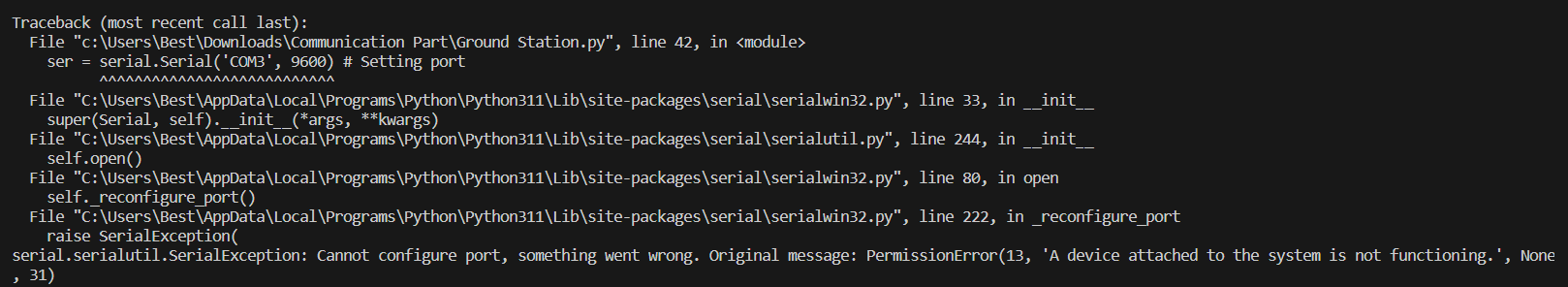
Every time you use and want to open it again disconnect and reconnect the receiver



# Troubleshoot

## Programming Part

## Communication Part



# Warning and Caution

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