

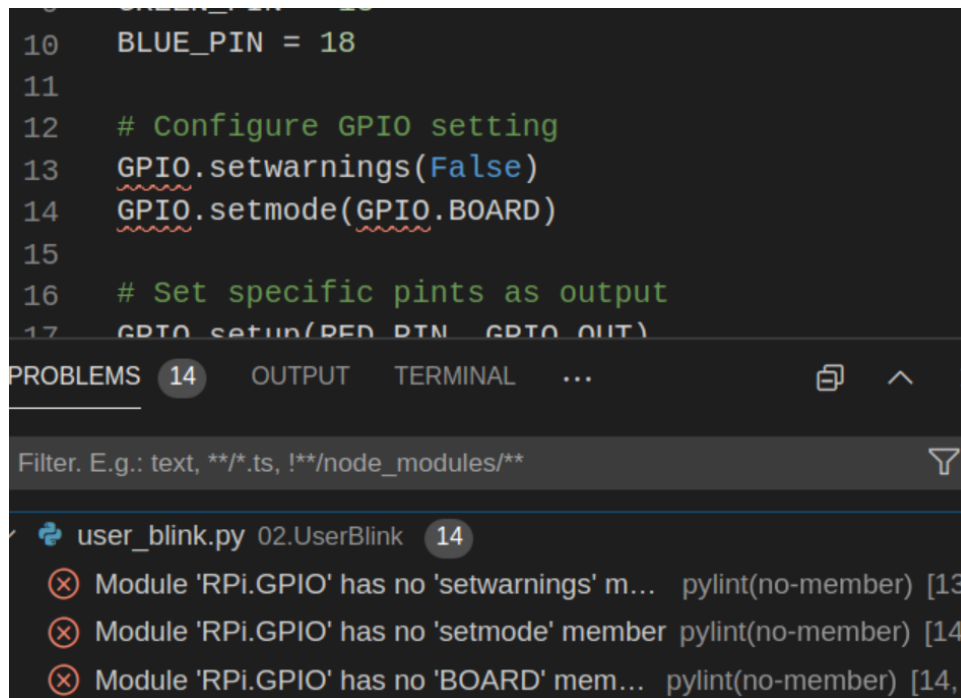
piRover Builds with K2

Remove GPIO Errors from VS Code

Rev 1.0

Issue:

The “linter” in Python is responsible for error-checking your code. The default linter is “pyLint”, and initially it knows nothing about the RPi.GPIO library. The GPIO method calls shown below are identified as errors even though the GPIO code runs just fine.



Resolution:

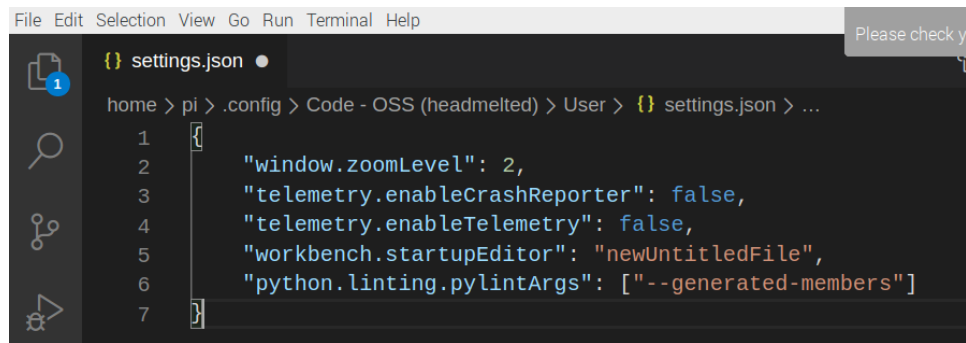
The settings file for VS Code must be edited. Complete the following steps.

1. In VS Code - Press: **CTRL + Shift + P**
2. Use the Search at the top to locate and click on **"Preferences: Open Settings (JSON)"**
3. Add this line to the end of the JSON file :

```
"python.linting.pylintArgs": ["--generated-members"]
```

4. A comma must be included at the end of the line just above. Your file should look like similar to the example on the following page. Initial lines may differ. Again, note the comma at the end of line 5 and the color coding.

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A screenshot of the Visual Studio Code editor interface. The top menu bar includes File, Edit, Selection, View, Go, Run, Terminal, and Help. The left sidebar shows the Explorer view with a file named settings.json selected. The main editor area displays the contents of settings.json, which is a JSON object with several configuration settings. The file path in the breadcrumb is home > pi > .config > Code - OSS (headmelted) > User > settings.json. The JSON content includes window.zoomLevel, telemetry.enableCrashReporter, telemetry.enableTelemetry, workbench.startupEditor, and python.linting.pylintArgs.

```
File Edit Selection View Go Run Terminal Help

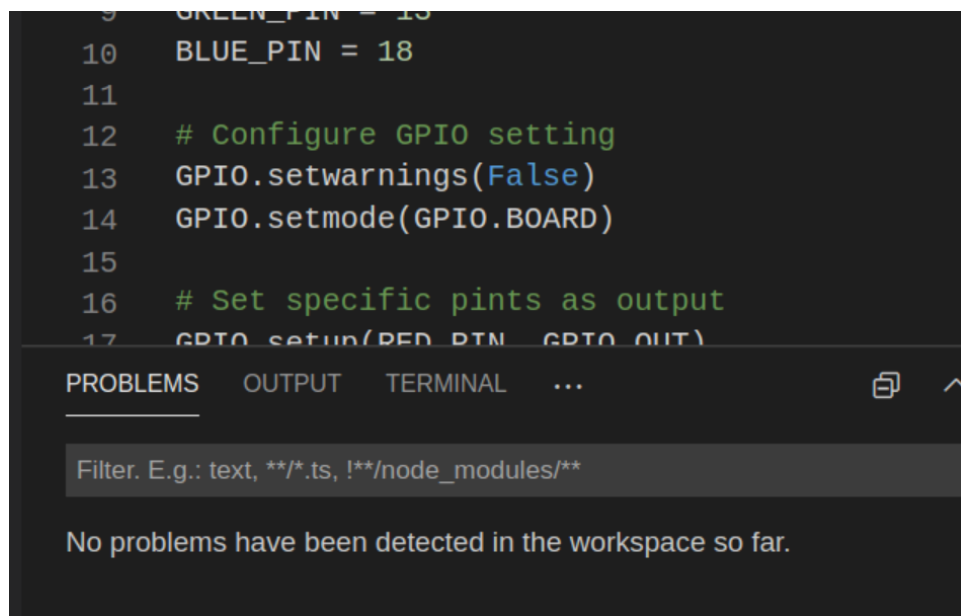
home > pi > .config > Code - OSS (headmelted) > User > settings.json > ...

1 {
2   "window.zoomLevel": 2,
3   "telemetry.enableCrashReporter": false,
4   "telemetry.enableTelemetry": false,
5   "workbench.startupEditor": "newUntitledFile",
6   "python.linting.pylintArgs": ["--generated-members"]
7 }
```

Press Ctrl-S to save the file.

Verify:

Open one of your GPIO code files. The errors (Problems) are removed.

A screenshot of the Visual Studio Code editor interface. The top part shows a code editor with Python code for GPIO setup. The bottom part shows the PROBLEMS panel, which is currently empty, indicating no errors were detected. The code in the editor includes comments and function calls like GPIO.setwarnings, GPIO.setmode, and GPIO.setup.

```
9 GREEN_PIN = 13
10 BLUE_PIN = 18
11
12 # Configure GPIO setting
13 GPIO.setwarnings(False)
14 GPIO.setmode(GPIO.BOARD)
15
16 # Set specific pints as output
17 GPIO.setup(PED_PIN, GPIO.OUT)
```

PROBLEMS OUTPUT TERMINAL ...

Filter. E.g.: text, **/*.ts, !**/node_modules/**

No problems have been detected in the workspace so far.

There is no assignment or evaluation required for this action.