## IT314 - Software Engineering Lab 5 - Static Analysis

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The Static Analysis tool used here is mypy for python code.

To download this tool we need to write the following commands in the command prompt: pip install mypy

For this command to work we have to set the path to script folder in the python-program files-admin-C

```
Microsoft Windows [Version 10.0.19044.1826]

Alcrosoft Windows [Version 10.0.19044.1826]

(c) Microsoft Corporation. All rights reserved.

C:\Users\student>cd C:\Program Files\Python310\Scripts

C:\Program Files\Python310\Scripts>pip mypy

ERROR: unknown command "mypy"

C:\Program Files\Python310\Scripts>pip install mypy

Defaulting to user installation because normal site-packages is not writeable

Collecting mypy

Downloading mypy-1.1.1-cp310-cp310-uin_amd64.uhl (8.9 MB)

Downloading mypy-1.1.1-cp310-cp310-uin_amd64.uhl (8.9 MB)

Oollecting typing-extensions>-0.10

Downloading typing-extensions>-0.10

Downloading typing-extensions>-1.0.0-py3-none-any.whl (27 kB)

Collecting tomil>=1.10

Downloading typing-extensions>-1.0.0-py3-none-any.whl (4.7 kB)

Installing collecting packages: typing-extensions, tomil, mypy-extensions, mypy

MARHING: The scripts dmypy-exe, mypy.exe, mypy.exe, studgen.exe and stubtest.exe are installed in 'C:\Users\student\supposes popota\text{NomingPython}+Python310\Scripts' which is not on PATH

Consider adding this directory to PATH or, if you prefer to suppress this warning, use --no-warn-script-location.

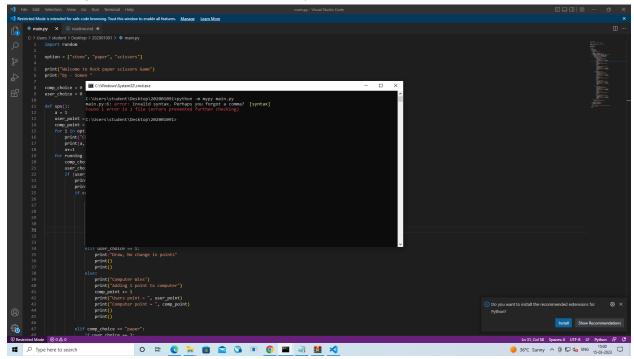
Successfully installed mypy-1.1.1 mypy-extensions-1.0.0 tomil-1.0.0 tomil-2.0.1 typing-extensions-4.5.0

MARHING: You are using pip version 22.0.4; however, version 23.0.1 is available.

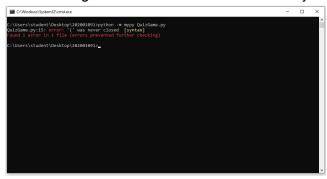
C:\Program Files\Python310\Scripts>mypy PROGRAM

'aypy' is not recognized as an internal or external command, operable program or batch file.
```

The following screenshot shows the error analysis of the main file.



The following screenshot shows the error analysis of the QuizGame file.



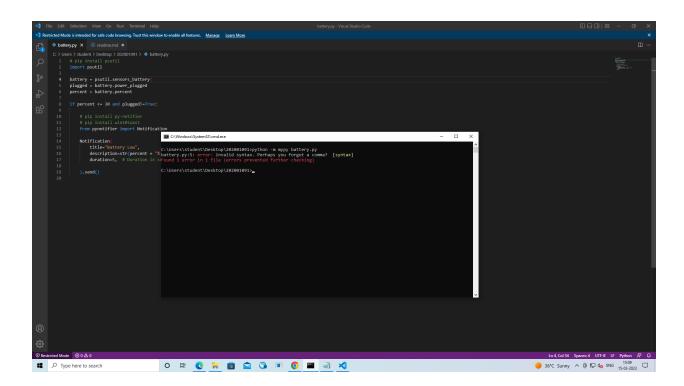
The following screenshot shows the error analysis of the Calculator file.

```
C:\Users\student\Desktop\202001991\_

C:\Users\student\Desktop\202001992\Desktop\202001992\Desktop\202001992\Desktop\202001992\Desktop\202001991\_

C:\Users\student\Desktop\202001991\_
```

The following screenshot shows the error analysis of the battery file.



The following screenshot shows the error analysis of the internet\_connection\_check file.

