IT314-Software Engineering
LAB-5

Name : Patel Krunal Shashikantbhai
Group : 24
Id : 202001442

- **Static Analysis Tool used:**
  Mypy

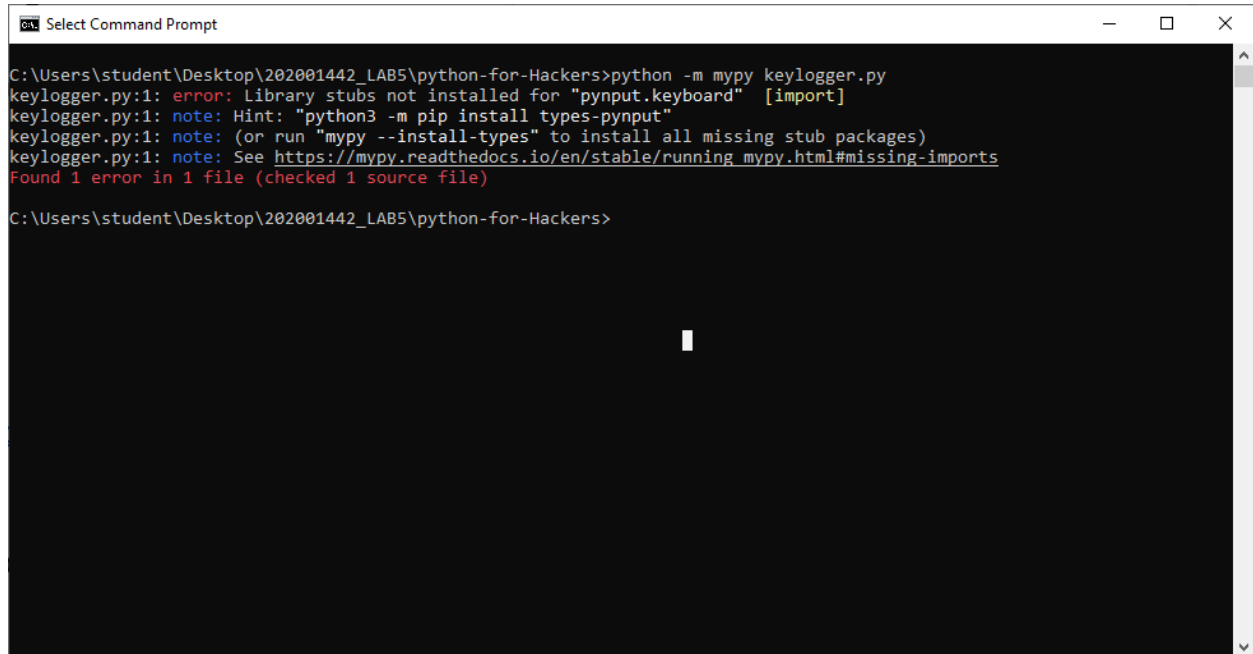- **Git repository i used :**
  https://github.com/fikrado-orgnasation/python-for-Hackers.git

- **Files for which mypy tool used:**

  Keylogger.py

Command Prompt Output:

Error Explanation :

The errors are related to the pynput.keyboard pynput module. Mypy detected the errors because the those module hasn't been installed in the computer and therefore the functions
related to it cannot be accessed.

Alpha-scanner.py

Command Prompt Output:


```
Command Prompt                                                          —    □    ✕

C:\Users\student\Desktop\202001442_LAB5\python-for-Hackers>python -m mypy Alpha-scanner.py
Alpha-scanner.py:4: error: Library stubs not installed for "nmap"  [import]
Alpha-scanner.py:4: note: Hint: "python3 -m pip install types-python-nmap"
Alpha-scanner.py:4: note: (or run "mypy --install-types" to install all missing stub packages)
Alpha-scanner.py:4: note: See https://mypy.readthedocs.io/en/stable/running_mypy.html#missing-imports
Found 1 error in 1 file (checked 1 source file)

C:\Users\student\Desktop\202001442_LAB5\python-for-Hackers>
```
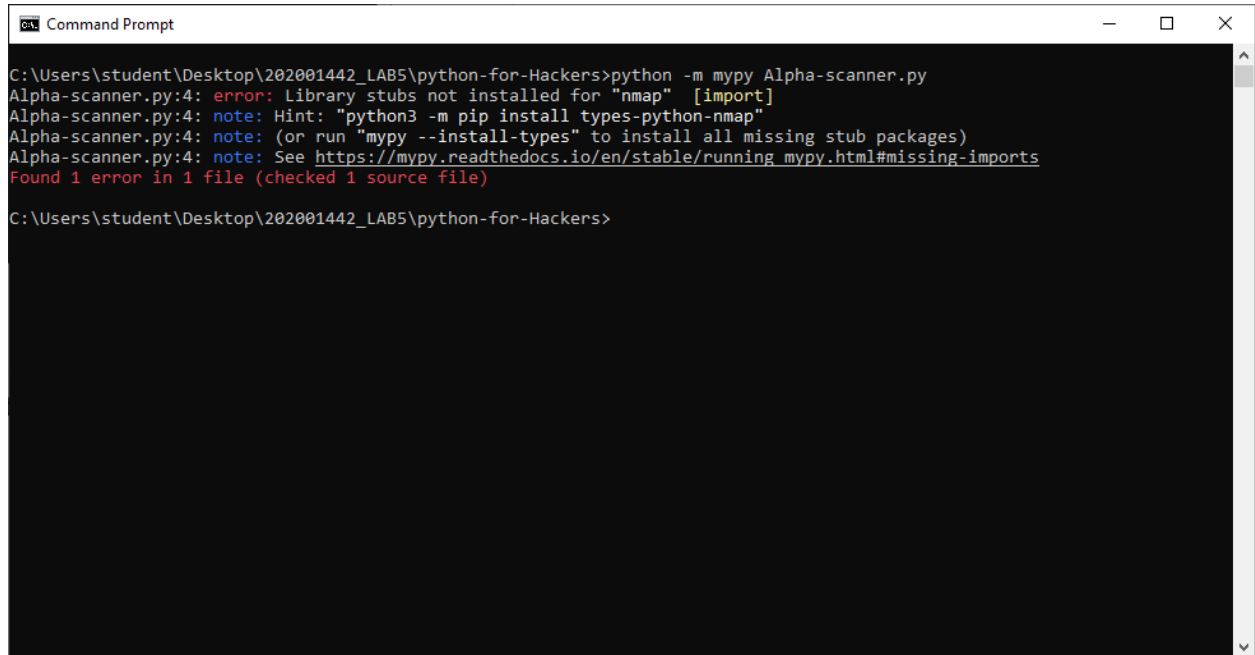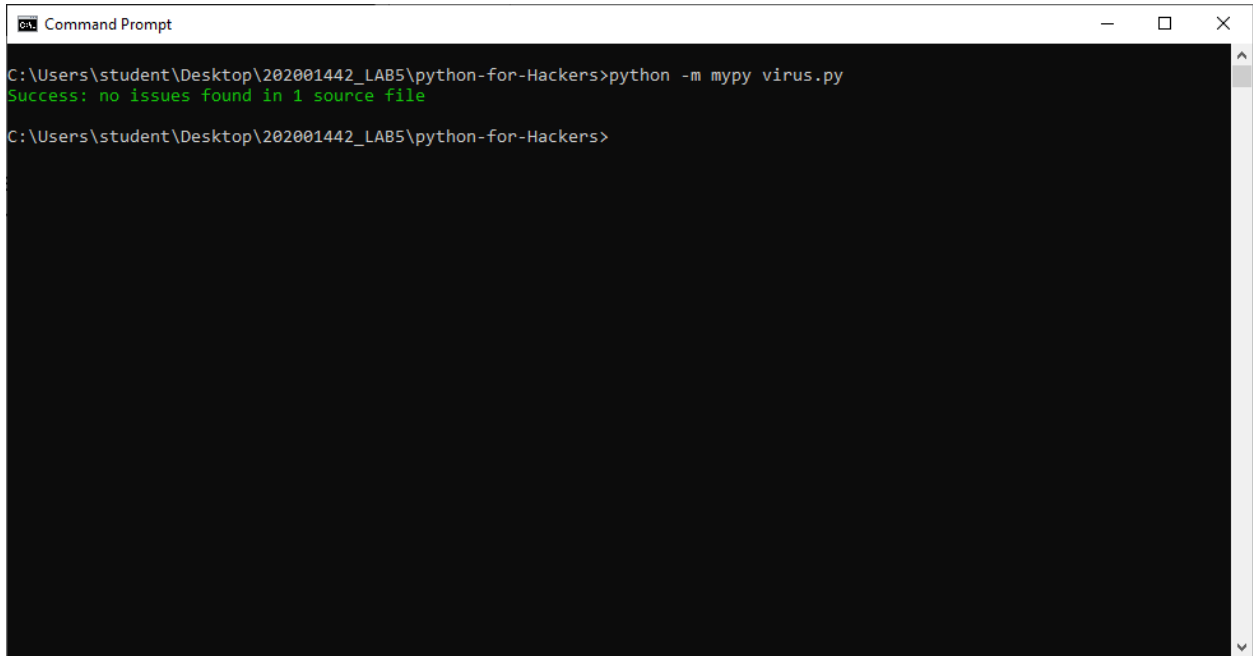
Error Explanation :

The errors are related to the nmap,python-nmap module. Mypy detected the errors because the those module hasn't been installed in the computer and therefore the functions related to it cannot be accessed.
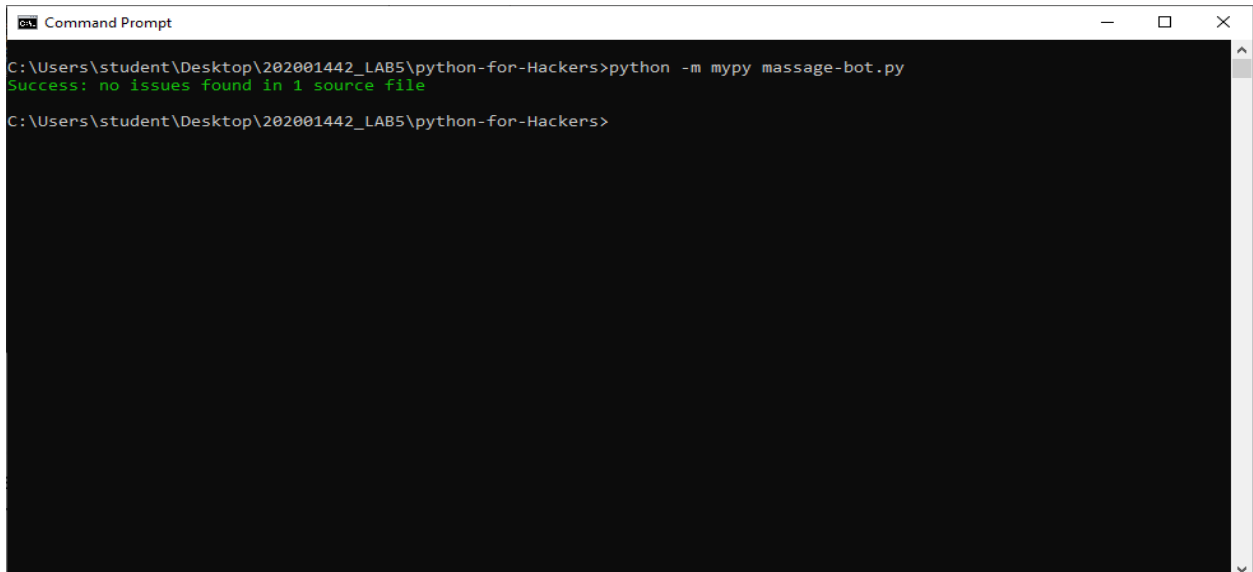
Virus.py
Command Prompt Output:

```
Command Prompt                                                    —   □   ✕

C:\Users\student\Desktop\202001442_LAB5\python-for-Hackers>python -m mypy virus.py
Success: no issues found in 1 source file

C:\Users\student\Desktop\202001442_LAB5\python-for-Hackers>
```

No errors detected by mypy.

Massage-bot.py
Command Prompt Output:
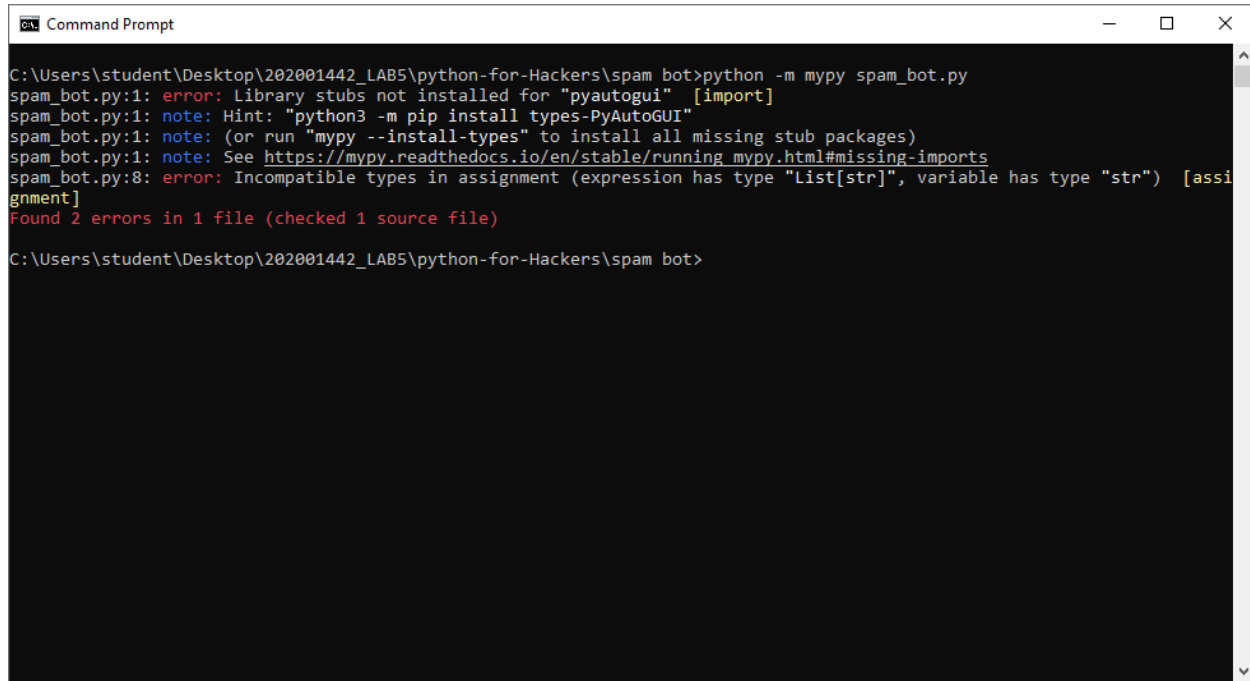
```
Command Prompt                                                    —   □   ✕

C:\Users\student\Desktop\202001442_LAB5\python-for-Hackers>python -m mypy massage-bot.py
Success: no issues found in 1 source file

C:\Users\student\Desktop\202001442_LAB5\python-for-Hackers>
```

No errors detected by mypy.

spam bot\spam_bot.py
Command Prompt Output:

```
Command Prompt                                                    —    □    ×

C:\Users\student\Desktop\202001442_LAB5\python-for-Hackers\spam bot>python -m mypy spam_bot.py
spam_bot.py:1: error: Library stubs not installed for "pyautogui"  [import]
spam_bot.py:1: note: Hint: "python3 -m pip install types-PyAutoGUI"
spam_bot.py:1: note: (or run "mypy --install-types" to install all missing stub packages)
spam_bot.py:1: note: See https://mypy.readthedocs.io/en/stable/running_mypy.html#missing-imports
spam_bot.py:8: error: Incompatible types in assignment (expression has type "List[str]", variable has type "str")  [assi
gnment]
Found 2 errors in 1 file (checked 1 source file)

C:\Users\student\Desktop\202001442_LAB5\python-for-Hackers\spam bot>
```

Error Explanation :

The errors are related to the pyautogui,PyAutoGui module. Mypy detected the errors because the those module hasn't been installed in the computer and therefore the functions related to it cannot be accessed.