
3. Code

3.1. Repository link

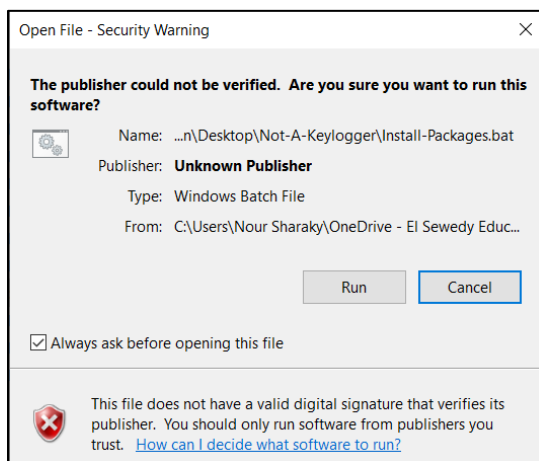
https://github.com/znahamama/Key_Logger

Filename	Type	Purpose
Initial files: before running the code		
Install-Packages	Windows Batch File	- Install all libraries used in the program
KeyLogger	Python file	- Main code where keylogging, clipboard logging, screen capturing, writing to files, sending emails are executed.
KeyDictionary	Python file	- Contains a dictionary storing the key-values for special keyboard characters. - To be imported in Keylogger.py.
New files: after running the code		
Clipboard	Text Document	- Contains a log what the user copied since running the code.
Full_Log	Text Document	- Contains a full log of all keystrokes recorded.
Formatted_Full log	Text Document	- Contains a formatted more readable form of Full_log.txt.
Encrypted_Full log	Text Document	- Contains an encrypted version of Full_Log.txt.
Decrypted_Full log	Text Document	- Contains a decrypted version of Encrypted_Full log.txt using key.key.
key	KEY file	- Contains the key by which the Full_Log.txt was encrypted and decrypted.
Screenshots	File folder	- Contains PNG screenshots of the user's screen.
Data	Compressed (zipped) folder	- A zipped folder containing all the new files mentioned above. - To be sent to the input email.

3.2. Instructions

To activate the program, the user would have to follow a set of simple steps:

- 1) Download the ZIP folder containing the program's files found on GitHub.
- 2) Extract the files from the ZIP folder, the user would find three files: Install-Packages.bat, KeyLogger.py, and KeyDictionary.py.
- 3) **Install-Packages.bat:**



- 1) Double click on the file, then choose run.
- 2) Wait for libraries to install.

```
C:\Windows\system32\cmd.exe

C:\Users\Admin\Desktop>echo This is a simple batch script to install Required Libraries
This is a simple batch script to install Required Libraries

C:\Users\Admin\Desktop>pip install tk
Requirement already satisfied: tk in c:\users\admin\appdata\local\programs\python\python310\lib\site-packages (0.1.0)
WARNING: You are using pip version 21.2.3; however, version 21.3.1 is available.
You should consider upgrading via the 'C:\Users\Admin\AppData\Local\Programs\Python\Python310\python.exe -m pip install --upgrade pip' command.

C:\Users\Admin\Desktop>pip install zipfile36
Collecting zipfile36
  Downloading zipfile36-0.1.3-py3-none-any.whl (20 kB)
Installing collected packages: zipfile36
Successfully installed zipfile36-0.1.3
WARNING: You are using pip version 21.2.3; however, version 21.3.1 is available.
You should consider upgrading via the 'C:\Users\Admin\AppData\Local\Programs\Python\Python310\python.exe -m pip install --upgrade pip' command.

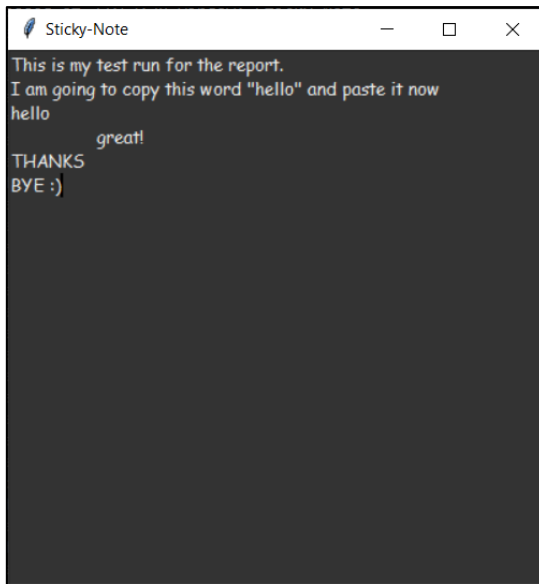
C:\Users\Admin\Desktop>pip install cryptography
Collecting cryptography
  Downloading cryptography-36.0.1-cp36-abi3-win_amd64.whl (2.2 MB)
    | 532 kB 44 kB/s eta 0:00:37
```

- 3) When the libraries are done installing, press enter to close the file.

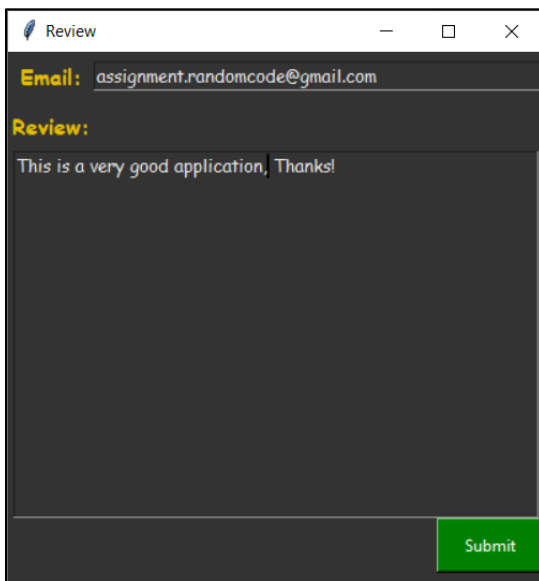
```
C:\Users\Admin\Desktop>set /p DUMMY=Hit ENTER to continue...
Hit ENTER to continue...
```

4) KeyLogger.py:

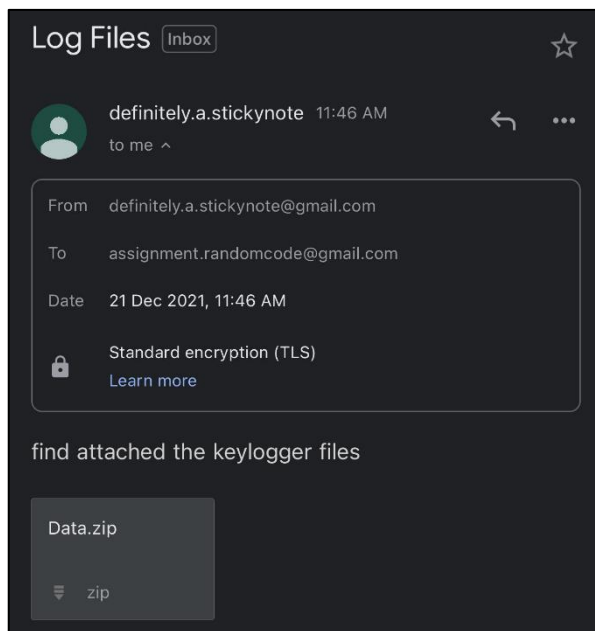
- 1) Double click on the file to run.
- 2) A Sticky-Note window would pop up, the user should feel free to make use of its function to type notes.



- 3) The user would continue to use their computer normally while the keylogger operates in the background until the user closes the Sticky-Note window.
- 4) Once the user exits the Sticky-Note window, a Review window appear. In which the user could input an email and leave a review then press submit. If the user does not input an email, an email would be sent to a test email (address: assignment.randomcode@gmail.com, password: K3yl0gg3r_F@ll_B2ck).



- 5) A few seconds after the user submits the Review, the user would receive an email containing the ZIP file with all log files. **(Email test case)**



- 6) After extracting the Data.zip file, the user would find the following files:

