



# Keylogger Using Python

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# What is a Keylogger

A keylogger is an invisible tool for surveillance that allows you to monitor the activities carried out by the users of your computer without them knowing.

A keylogger is great for both companies who want to keep track of their employee's internet and computer usage or for private persons where the family shares one or many computers.

This great product is not always used for surveillance, it can also be a great tool for the person with many passwords and usernames to easier remember them.



# The Types of Keylogger

01

**Hardware Keylogger:** A keylogger, sometimes called a keystroke logger or keyboard capture, is a type of surveillance technology used to monitor and record each keystroke on a specific computer.

02

**Software Keylogger:** Keyloggers or keystroke loggers are software programs or hardware devices that track the activities (keys pressed) of a keyboard. Keyloggers are a form of spyware where users are unaware their actions are being tracked.

# How does Keylogger Works

A software keylogger is put on a computer when the user downloads an infected application. Once installed, the keylogger monitors the keystrokes on the operating system you are using, checking the paths each keystroke goes through. In this way, a software keylogger can keep track of your keystrokes and record each one.

## Common Keylogging Threats



Identity  
theft



Financial  
fraud



Virtual or  
physical stalking



Exposure of  
personal data



# What are the Benefits of Keylogger

Business administration

Computer activity

School administration

Easy to deploy at-scale

Inconspicuous user activity monitoring

Can be deployed without physical access to the device you would like to record keystrokes on.



# Prevention

There are several ways to prevent keylogger:

- Install Anti Virus/Spyware and Firewall
- Automatic Form Fillers
- Alternative Keyboard Layouts
- Two-Factor Authentication
- Only Download Safe Files
- On Screen Keyboard

## Protect Yourself From Keylogging

Recognize these six pointers to protect yourself from malicious keyloggers.



Enable two-factor authentication



Don't download unknown files



Consider a virtual keyboard



Use a password manager



Install antivirus software



Consider voice-to-text conversion software

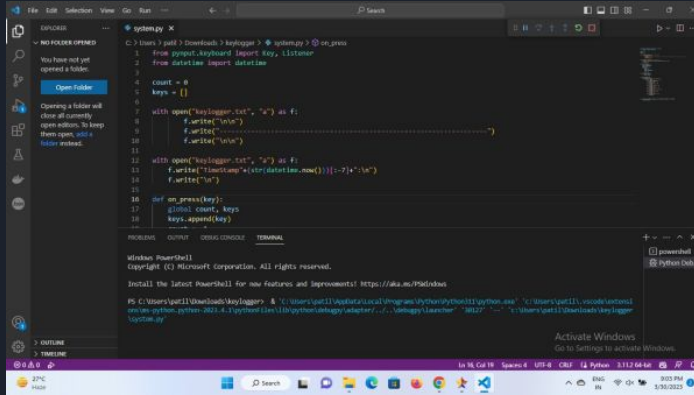
# What does Keylogger Monitor

- The keylogger can also filter to only log specific users, only log specific applications and deny access to applications and websites.
- The keylogger can activate it self when windows starts and is completely invisible.
- The keylogger is monitors the all keystrokes of the victims system and make a log file and store that data into it.
- Keyloggers or keystroke loggers are software programs or hardware devices that track the activities (keys pressed) of a keyboard.
- Keyloggers are a form of spyware where users are unaware their actions are being tracked.

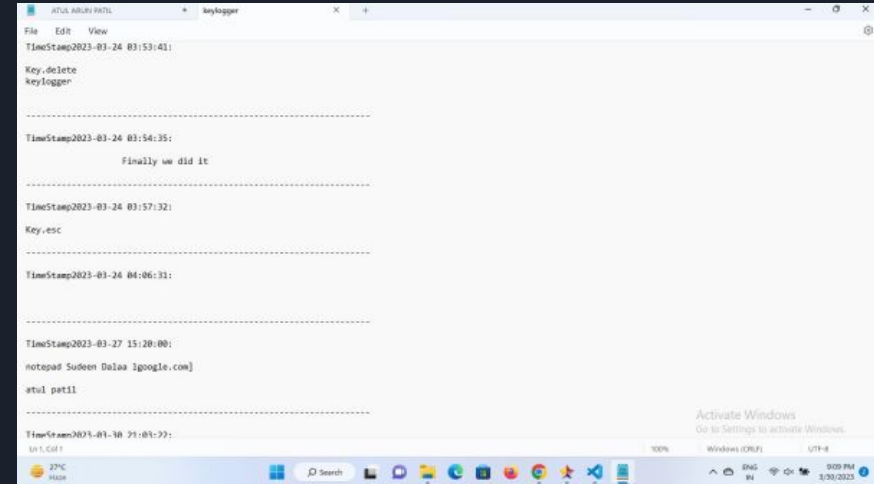
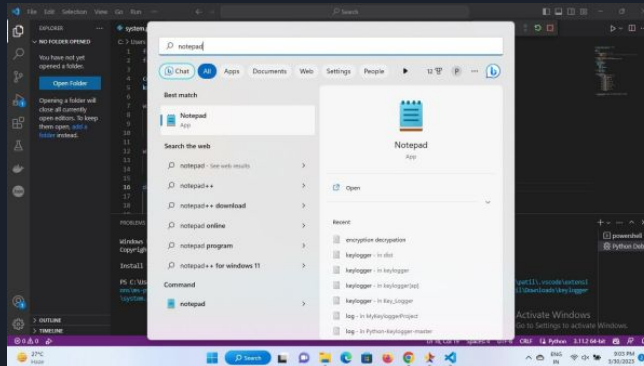




# Outputs of our Project



```
1 from pynput.keyboard import Key, Listener
2 from datetime import datetime
3
4 count = 0
5 keys = []
6
7 with open("keylogger.txt", "a") as f:
8     f.write("\n\n")
9     f.write("-----")
10    f.write("\n\n")
11
12 with open("keylogger.txt", "a") as f:
13     f.write(f"Timestamp: {str(datetime.now())[:-7]} \n\n")
14     f.write("\n")
15
16 def on_press(key):
17     global count, keys
18     keys.append(key)
```





# Conclusion

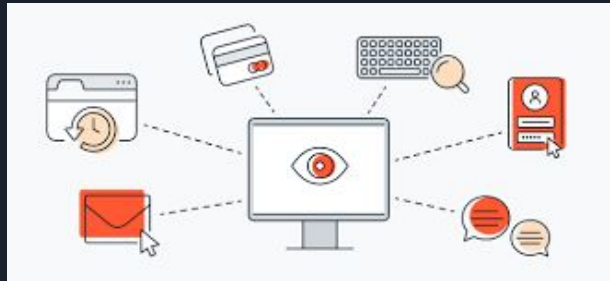
1. As there are always two sides of a coin. Just like this keylogger has good as well as bad reputation.
2. In the world of hacking it used to steal someone's personal information. While on the other hand it is used in a company to monitor any suspicious activity that may cause a serious liability to the company's benefit.
3. But we must aware of what's installed on your computer. Use caution when surfing the internet. Keep your computer's security software updated.

## **Future Enhancement:**

The app can be further extended to add certain extra features like mailing the logs that are stored in the log file.



# Thank you!



## Keylogging Explained

Keylogging and keystroke monitoring tools **record, store, and relay** a user's keyboard interactions.

