

```
START
```

```
CLASS KeyboardListener
```

```
    # Class to handle keyboard events
```

```
    DECLARE keystrokes_list
```

```
    FUNCTION __init__
```

```
        # Initialize the listener and keystrokes list
```

```
        keystrokes_list ← empty list
```

```
    FUNCTION start_listener
```

```
        # Start listening for keyboard events
```

```
        DEFINE listener using pynput.keyboard.Listener
```

```
        DEFINE on_press function to append key to keystrokes_list
```

```
        BIND on_press function to listener
```

```
        START listener
```

```
    FUNCTION stop_listener
```

```
        # Stop listening for keyboard events
```

```
        IF listener is not null THEN
```

```
            STOP listener
```

```
        END IF
```

```
    END CLASS
```

```
CLASS MouseListener
```

```
    # Class to handle mouse events
```

```
    DECLARE clicks_count
```

```
    FUNCTION __init__
```

```
        # Initialize the listener and clicks count
```

```

        clicks_count ← 0

FUNCTION on_click (x, y, button, pressed)
    # Function to handle mouse click events
    IF pressed THEN
        INCREMENT clicks_count
    END IF

FUNCTION start_listener
    # Start listening for mouse events
    DEFINE listener using pynput.mouse.Listener
    DEFINE on_click function to handle mouse clicks
    BIND on_click function to listener
    START listener

FUNCTION stop_listener
    # Stop listening for mouse events
    IF listener is not null THEN
        STOP listener
    END IF
END CLASS

CLASS Logger
    # Class to log data
    DECLARE logger

    FUNCTION __init__
        # Initialize logger
        logger ← null

```

```

FUNCTION open_connection
    # Open connection
    logger ← python_.Logger()
    logger.connect()

FUNCTION log_data(data)
    # Log data
    logger.log(data)

FUNCTION close_connection
    # Close connection
    IF logger is not null THEN
        logger.disconnect()
    END IF
END CLASS

FUNCTION main
    # Main function to manage program flow
    DISPLAY "Benchmark"
    DISPLAY "1. Capture Keyboard Events"
    DISPLAY "2. Capture Mouse Events"
    DISPLAY "3. Log Data"
    DISPLAY "4. Exit"
    INPUT choice

    SWITCH choice
        CASE 1:
            DECLARE keyboard_listener ← new KeyboardListener()
            CALL keyboard_listener.start_listener()
        CASE 2:

```

```

        DECLARE mouse_listener ← new MouseListener()
        CALL mouse_listener.start_listener()
CASE 3:
    DECLARE logger ← new dataLogger()
    CALL logger.open_connection()
    # logging data
    FOR i ← 1 TO 10
        CALL logger.log_data("log Message " + i)
    END FOR
    CALL logger.close_connection()
CASE 4:
    DISPLAY "Exiting program"
DEFAULT:
    DISPLAY "Invalid choice"
END SWITCH
END FUNCTION

CALL main()

END

```