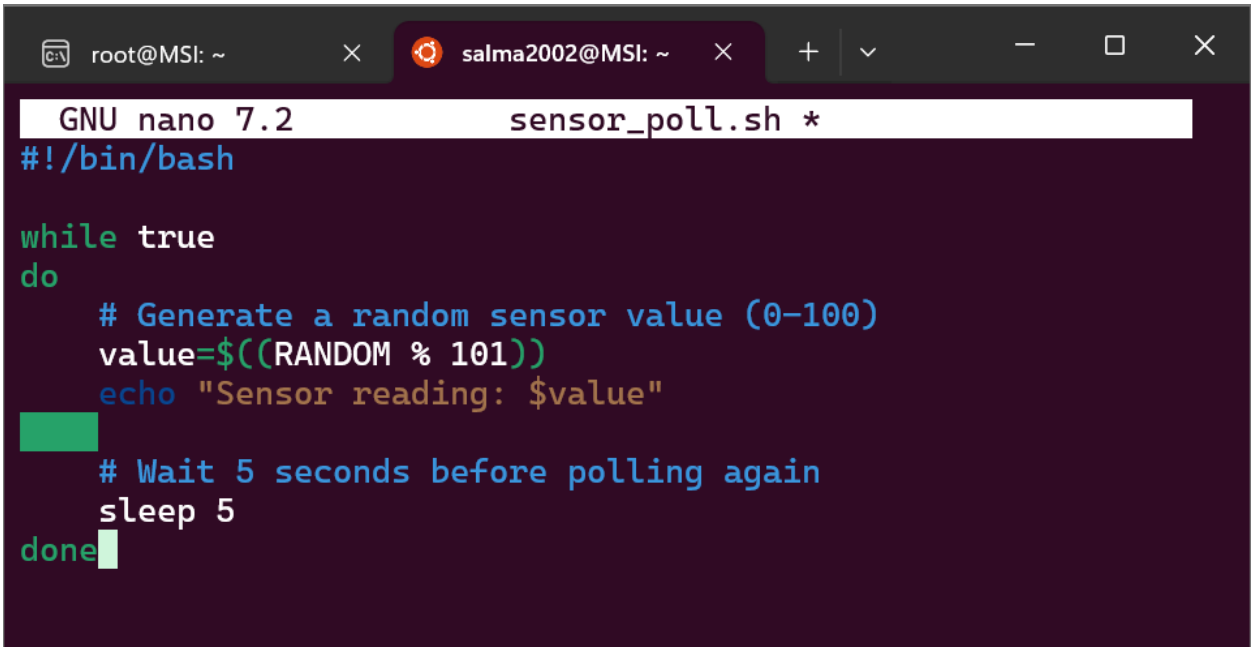
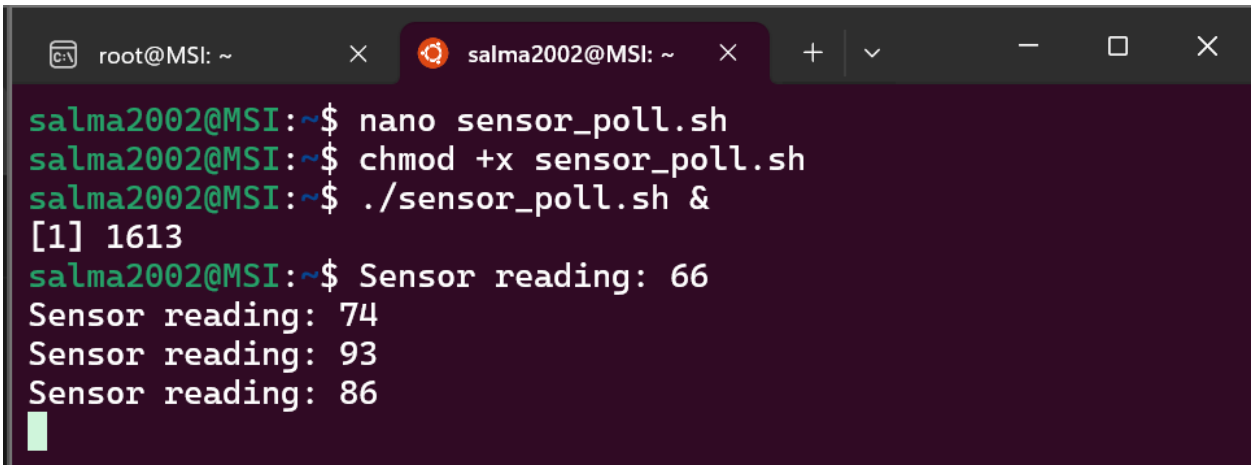
Day 4 – Phase 4: Process and Network Monitoring

Boss's Request: Monitor the system while simulating sensor activity.

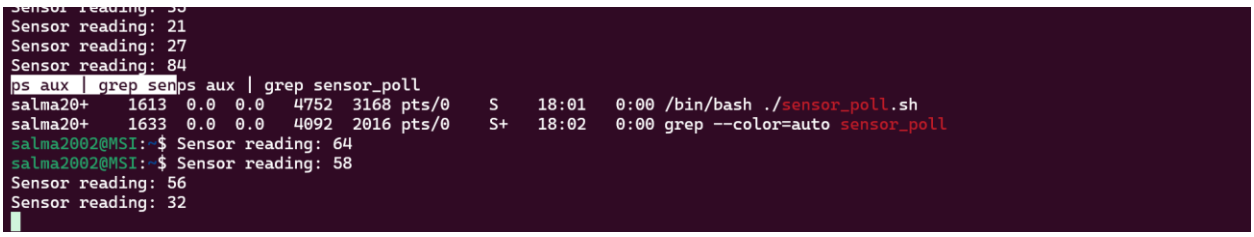
Tasks:

• Run a background task to simulate sensor polling.

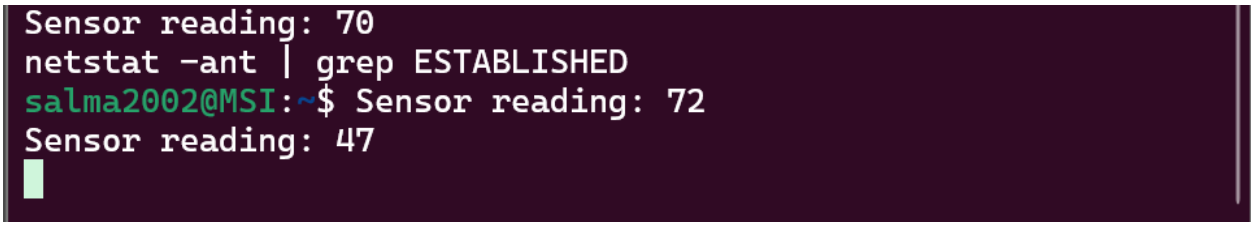




• List processes and filter for the background task.



• Check network states (established connections).



• Try foreground and background switching.

• Kill a process if needed.

Open-Ended Questions:

• What happens step by step when you type a command in bash (e.g., ls) until you see the output?

• Explain the types of processes in Linux: daemon, zombie, orphan. How can you detect them?

• Why do we need Inter-Process Communication (IPC)? List some IPC mechanisms and real-life examples.