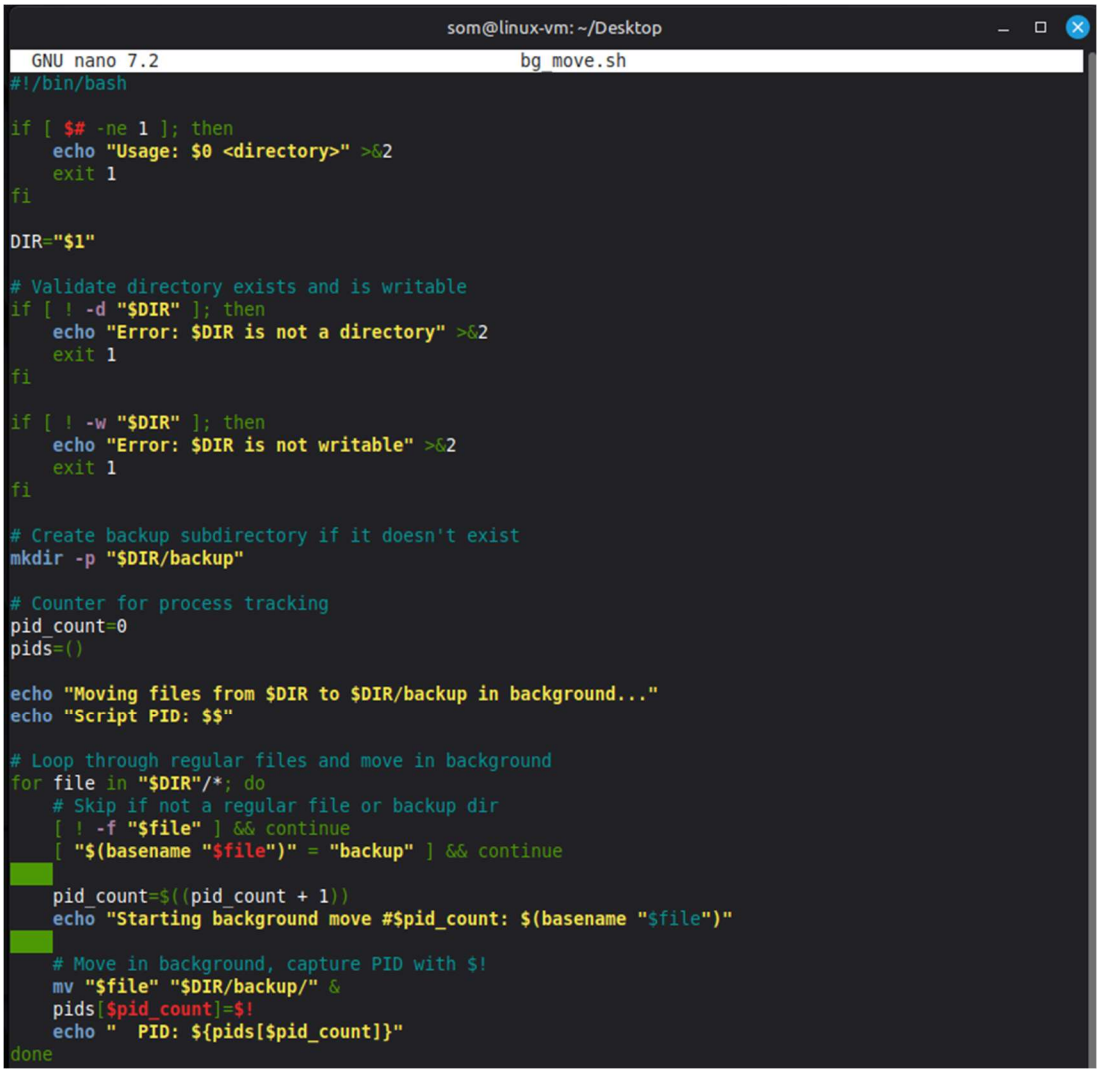
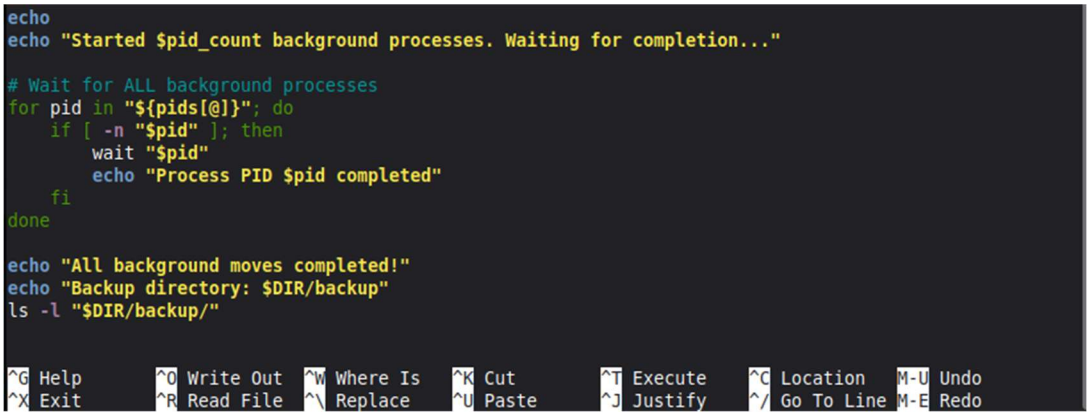
Question 8 (2024eb03003):

Please find screenshot of shell script below and attaching **bg_move.sh** script to GitHub repository:



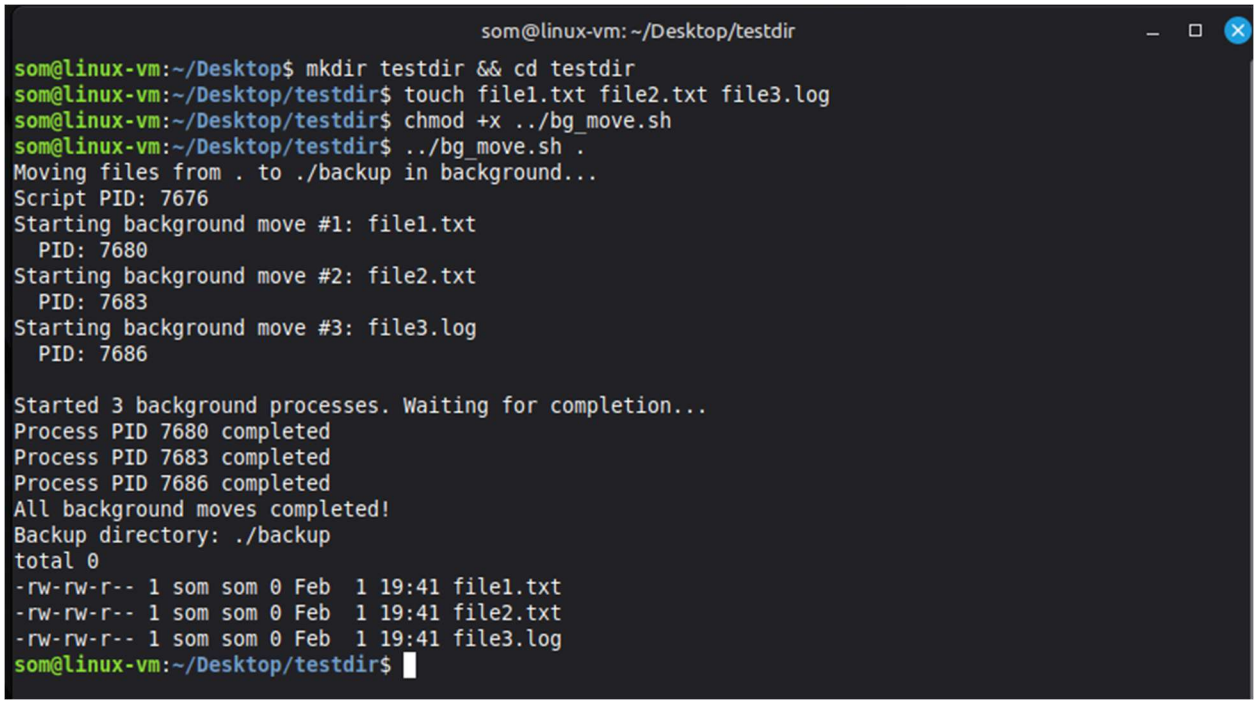


Testing the bg_move.sh Script

Test Case:

Create testdir with multiple files, run ./bg_move.sh to verify each mv runs in background (&), displays PIDs ($!), creates backup/ subdirectory, and wait blocks until all processes complete ($$ shown), proving all requirements met.

```
mkdir testdir && cd testdir
touch file1.txt file2.txt file3.log
chmod +x ../bg_move.sh
../bg_move.sh .
```



Requirement followed:

- &: Each mv runs in background
- $!: Captures PID of last background process
- $$: Displays script's own PID
- wait $pid: Waits for specific background PIDs to finish
- Array ${pids[@]}: Tracks all background process PIDs

The script created backup/ subdirectory and moves all regular files there concurrently, displays each PID, and waits for complete completion.