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| TASK | **COMMAND** |
| In your home directory, create the following file named muosProcesses.sh:  #!/bin/bash  sleep 60  echo “ All done”  echo “Finished” > muosProcessesCompleted  (this is a basic script that causes the program to sleep (pause) for 60 secs and then output a message to standard out and a message to a file called muosProcessesCompleted) | **cat > muosProcesses.sh** |
| Change the permission on the muosProcesses.sh file to be executable by all  (scripts require executable permissions in order to run) | **chmod a+x muosProcesses.sh** |
| Run the muosProcesses.sh script.  Observe the prompt returning 60 secs later and the message “All done” being displayed.  Also verify that the muosProcessesCompleted file has been created and it contains the text “Finished”  **\*See note at end of table** | **In the directory where the muosProcesses.sh exists, execute the script by issuing:**  **./muosProcesses.sh** |
| Re-issue the same command, but this time force it to run in the background.  (The prompt should immediately return after issuing the command)  While the script is running use the ps command to confirm that the script is running in the background as expected  (look for the ./muosProcesses.sh and sleep 60 in the list of processes)  After 60 secs the processes should have disappeared from the list and the message “All done” will have been displayed on the screen  Also verify that the muosProcessesCompleted file has been created and it contains the text “Finished”  **\*See note at end of table** | **./muosProcesses.sh&** |
| Set the script running in the background, but this time, as soon as the prompt is redisplayed, kill the script process, and confirm that after 60 secs the “All done” message is NOT displayed.  (you need to kill the ./muosProcesses.sh process and you can optionally kill the sleep process)  Verify that the muosProcessesCompleted file has NOT been created | ***Find PID of process (ps –l), then***  **kill *PID\_Number*** |
| Set the script running in the background, and include the command that will ensure the script will continue to run after you log out of the system. | **nohup ./muosProcesses.sh&**  **exit** |
| Set the script running in the background with a priority value 7 less than the default.  Use the ps command to view the process nice value (NI column in the output) | **nice -7 ./muosProcesses.sh&** |

**\*The creation of the file muosProcessesCompleted is verified in each step, therefore you must either check that the timestamp on the file has been updated to confirm that the command you just issued was responsible for creating the file OR delete the file after each step so that it will be re-created in future steps**