Linux Programming- Assignment 3



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**1. Difference between man and whatis**

* man: Shows full manual page of a command.  
   Example: man ls → shows detailed info about ls.
* whatis: Shows only one-line description.  
   Example: whatis ls → ls (1) - list directory contents.

**2. tee command with ls -l**

ls -l | tee output.txt

This saves output in output.txt and also shows on screen.

**3. Logging with tee**  
Example:

ping google.com | tee pinglog.txt

It logs output in pinglog.txt while displaying live results.

**4. Steps to install Ubuntu 25.04 on VirtualBox**

1. Download Ubuntu ISO.
2. Open VirtualBox → New VM.
3. Allocate RAM & Disk.
4. Mount ISO file.
5. Start VM → Follow Ubuntu installer steps.
6. Finish installation.

**5. Kernel Panic Error troubleshooting**

* Check ISO file not corrupted.
* Enable virtualization in BIOS.
* Give enough RAM/CPU.
* Try reinstalling or updating VirtualBox.

**6. Display and change hostname**

* Show hostname:
* hostname
* Change hostname with sysctl:
* sudo sysctl kernel.hostname=newname

**7. Calendar of August 1984**

cal 8 1984

**8. Uptime + logged-in users**

uptime && who

**9. Find all .c files in /home/user**

find /home/user -name "\*.c"

**10. File permission only owner read+write**

chmod 600 filename