Linux

1. Write a command that displays current time of the system

   To display only the current time use **date +%H:%M:%S**

   ```
   mikelgarcia@DESKTOP-G8P12E7:~$ date +%H:%M:%S
   16:35:59
   ```

2. Write a command that prints updates on a log file named "debug.log" in real time, only showing the lines that contain the word "ERROR"

   Using a debug.log example file
   tail -f /mnt/c/Users/mikel/Desktop/Fortris/debug.log | grep "ERROR"

   ```
   mikelgarcia@DESKTOP-G8P12E7:~$ tail -f /mnt/c/Users/mikel/Desktop/Fortris/debug.log | grep "ERROR"
   2024-06-25 10:20:10 ERROR Server crashed unexpectedly
   2024-06-25 10:23:00 ERROR Invalid input received
   2024-06-25 10:26:10 ERROR Out of memory error
   2024-06-25 10:29:20 ERROR Network connection timeout
   ```

3. Write a command that prints the size of each directory in a human readable way, sorted by size

   du -h | sort -rh

   ```
   mikelgarcia@DESKTOP-G8P12E7:~$ du -h | sort -rh
   60K     .
   28K     ./.docker
   16K     ./.docker/desktop
   12K     ./.docker/desktop/log
   8.0K    ./.docker/desktop/log/host
   4.0K    ./.docker/run
   4.0K    ./.cache
   ```

4. How would you schedule a task to be executed every Monday at 10pm?
   First type **crontab -e** and select your editor
   then add the task **0 22 * * 1 /example/backup.sh**

   ```
   # Edit this file to introduce tasks to be run by cron.

   0 22 * * 1 /example/backup.sh
   ```

5. In VI Editor, how would you save changes in a file that was opened in read only mode?

   First type **vi file.txt** to check the file
   and the type **:w !sudo tee file** and introduce the password

6. How would you change the ownership of a directory recursively?

   In order to change the ownership of the directory recursively, type **sudo chown - R mikelgarcia:mikelgarcia test**

```
mikelgarcia@DESKTOP-G8P12E7:~$ ls -d */
test/
mikelgarcia@DESKTOP-G8P12E7:~$ sudo chown -R mikelgarcia:mikelgarcia test
```