Capstone Task Day 02

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Tasks:

1.~/iot_logger/logs \$ touch temperature.log
 ~/iot_logger/scripts \$ touch sensor_script.py

2.~/iot_logger/data \$ sudo cp /etc/services ./ && grep -Ei '(ssh | http)' services

3.~/iot_logger/data \$ grep -E '(^t| [0-9])' services

4.~/iot_logger/data \$ find /home/ibrahim/ -type f -name "*.txt"

5.~/iot_logger/logs \$ ln temperature.log temperature_hard.log
~/iot_logger/logs \$ ln -s temperature.log temperature_soft.log

6.~/iot_logger \$ tree

----screenshot-----

Open-Ended Questions:

1. File types:

- **1.1.** Regular File: .txt,. bin , .jpg, and .out files starts with (-) in file permissions like this file : -rw-r—r--
- **1.2.** Directory: special type of files stores files or directories starts with (d) in file permissions like this file : drwxr-xr-x
- **1.3.** Symbolic link: it is similar to a shortcut to file of directory tarts with (l) in file permissions like this file: lrwxrwxrwx
- **1.4.** character device file: refer to device deals with stream data like keyboard starts with (c) in file permissions like this file: crw-rw-rw-

2.Hard link vs Soft link:

- **2.1.** Hard link: give a file second name to the same data (new pointer to the same data) uses in backup without more disk usage
- **2.2.** Soft link: is like a shortcut to file or directory uses to organize data.

3. rmdir vs rm -r

- **3.1.** rmdir: remove only empty directories.
- **3.2. rm -r:** remove all directories even not empty with files or subdirectories

Thank You....