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ITE365-Scripting Languages
Lab04-Interpretting Grep Output

Sources: Stackoverflow to combine different articles to reach answers

**3.0.1 Questions: Interpreting the output from grep**
       **1. What was output from each command? Interpret what the output is telling about configuration of the operating system.**

```
parallels@ubuntu:~/ITE315$ grep model /proc/cpuinfo
model           : 94
model name      : Intel(R) Core(TM) i7-6700HQ CPU @ 2.60GHz
model           : 94
model name      : Intel(R) Core(TM) i7-6700HQ CPU @ 2.60GHz
```

```
parallels@ubuntu:~/ITE315$ grep 'mode name' /proc/cpuinfo
parallels@ubuntu:~/ITE315$
parallels@ubuntu:~/ITE315$ grep -c Remote /etc/services
6
parallels@ubuntu:~/ITE315$ grep -c send /etc/services
1
parallels@ubuntu:~/ITE315$ grep -c -w send /etc/services
1
parallels@ubuntu:~/ITE315$ grep -cw send /etc/services
1
parallels@ubuntu:~/ITE315$ grep -cwi send /etc/services
1
```

       **2. What grep command can use use that lists each line in /etc/services? Make certain to have grep precede each line with its line number in the file.**
       - grep . -n /etc/services

       **3. List 20 lines from the files in the /usr/share directory that contain the string '27'. Do not include the cases where '27' is embedded in a longer number.**
       - grep -orw 27 /usr/share/ | head -n20

**3.1.1 Questions: Working with find**
**Write find commands to do the following:**
       **1. Find all log files in /var/log that are larger than 1MB.**
       - find -size +1M

       **2. Search the error log in /var/log for the string "USB" or "usb".**
       - cat /var/log/syslog | grep "[Uu][Ss][Bb]"
       - was unable to accomplish this with "find"

       **3. Find all JPG or GIF files in your home folder.**
       - find . -name "*.jpg" -o -name "*.gif"

       **4. FInd all files with the ".db' extension (ignoring case) modified in the last 7 days modified by your username.**
       - find . -name "*.db" -o -name "*.DB" -user $USER -mtime -7

**3.0.3 Questions: Using patterns wtih grep**
**Provide the grep commands for the following searches in the file /usr/share/common-licenses/GPL-3**

> **1. All lines that contain words that begin with a capital letter. 3**
> - grep "[A-Z]" GPL-3
>
> **2. All text of any length that is a parenthetical statement (i.e., in parenthesis).**
> - grep "[(][A-Za-z0-9*])]" GPL-3
>
> **3. Any line in the file that begins with a capital letter and ends with a period.**
> - grep "[A-Z][A-Za-z0-9 ]*[.]$" GPL-3
>
> **4. Any line in the file that contains the strings "GPL" or "General Public License".**
> - grep -E "GPL|General Public License" GPL-3
>
> **5. Any line in the file that contains either the word "copyright" or "right".**
> - grep -Ew "copyright|right" GPL-3
>
> **6. (Challenge question): Any line in the file that contains the string "free" followed by one or more characters that are not whitespace.**
> - grep "free[ ]" GPL-3