**Log on as linuxuser.**

1. Create a symbolic link from the file /usr/share/dict/words to /home/linuxuser/terms (1 mark)
2. Using grep and the terms file (1 mark):
   1. Find all words that contain the string ‘berry’ (b in upper or lower case)
   2. The string ‘berry’ must occur at the beginning of the line (20 words)
   3. There should be line numbers before each line
   4. Redirect the output to ~/2berry.txt
3. Using grep and the terms file (1 mark):
   1. Find all words that contain the string ‘shark’
   2. The word ‘shark’ must be self-contained (not part of another word) (ie. shark is correct, cardshark is not correct) (2 words)
   3. There should be line numbers before each line
   4. Redirect the output to ~/3shark.txt
4. Using grep and multiple files (2 marks)
   1. Use **recursive grep** to search all files in /scripts/work/, suppress any warnings.
   2. Find all words that end with ‘stone’ or end with ‘rate’
   3. Search only directories beginning with ‘A’ or ‘a’ (24)
   4. There should be line numbers before each line
   5. Redirect the output to ~/4stonerate.txt
5. Using find (1 mark):
   1. Find only files (not directories) in the /scripts/work directory
   2. Beginning with capital ‘A’
   3. Followed by any 1 character
   4. Followed by lowercase ‘d’
   5. Followed by any number of characters
   6. Ending with ‘e’. (2 files)
   7. Redirect the output to ~/5find.txt
6. Using find with cp (2 marks):
   1. Find only files (not directories) in the /scripts/work directory
   2. Beginning with lowercase ‘z’
   3. Sixth letter is lowercase ‘m’
   4. Followed by any number of characters
   5. Ending with lowercase ‘s’ (1 file)
   6. Use the -exec option to copy the file to /home/linuxuser/

**Toughie! (3 marks)**

Combine the use of the find and grep commands:

1. Find all the files ending in lowercase ‘ate’ in the /scripts/work directory.
2. The files must have permissions of 0644 -rw-r--r-- .
3. Use the exec option of the find command to grep the files for lines beginning with ‘q’ or ‘Q’.
4. grep should also include the filename of the file with the correct line
5. There should be 5 lines
6. Redirect the output to ~/bonus.txt

**Submit your work**

|  |
| --- |
| **sudo /scripts/lab-grep-check.sh** |

Question 1: terms - is a symbolic link

Question 2: /home/linuxuser/2berry.txt - exists

16 berryless

17 berrylike

18 berryman

19 berrypicker

20 berrypicking

Question 3: /home/linuxuser/3shark.txt - exists

1 shark

2 shark's

Question 4: /home/linuxuser/4stonerate.txt - exists

20 /scripts/work/ancientism/Baculites/automobilism/brickset:millstone

21 /scripts/work/auntish/cygnus/sandalwoods/backtalk's:barbiturate

22 /scripts/work/auntish/cygnus/tormentils:Firestone

23 /scripts/work/auntish/Linos/doyenne's:tetrahydrate

24 /scripts/work/auntish/Metros/untranscendentally/resettings:depauperate

Question 5: /home/linuxuser/5find.txt - exists

/scripts/work/uninucleated/peens/abbreviations/Aldridge

/scripts/work/upheaver/cellmates/venturousness's/Ardeae

Question 6: /home/linuxuser/zygnemaceous - exists

tobies

Suslov's

sorbose's

brainchildren

Tean's

Question 7: /home/linuxuser/bonus.txt - exists

/scripts/work/Keelby/hydrogeologist's/logjam/overcirculate:25:quittor

/scripts/work/sultanry/Midianite/curvate:29:quims

/scripts/work/fistmeles/malitia/Massalian's/bistate:27:quashies

/scripts/work/sereneness/bellic/Erytheis/inchoate:16:quakeproofing

/scripts/work/Ivyton's/globoses/deonerate:12:queenliest