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CTS-120-841-Lab Module 4

* In this lab you will enter different Linux commands and answer questions about the results.
* Include a screen print of **just the area of the screen with the desired result** (not the whole screen) in the table cell below the question, unless otherwise instructed.
  + *Reminder: Use the* ***Shift-Ctrl-Prtscr shortcut*** *& select just the area that you want.*
* The lab is worth a total of 10 points – some questions have multiple sections

## Module 4 – Section 1

Open a terminal window type ***gedit foo.txt*** – then enter the following data:

foo

foo

woo

noo

too

foo

coo

boo

coo

woo

soo

moo

woo

zoo

too

too

soo

8

5

9

1

5

2

4

9

8

3

9

Save the file and close it.

Use this foo.txt file to complete the questions below. - use cat, less, head, tail, sort and/or uniq

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| 1. Use the command to output the first 10 lines of ‘foo.txt’ | | 1 Pt |
| **Command:** | Click here to enter the answer to the question . | |
| **Screenprint**: | Click here to paste Screen print | |

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| 1. Use cat and sort to output ‘foo.txt’ in sorted order. | | 1 Pt |
| **Command:** | Click here to enter the answer to the question . | |
| **Screenprint**: | Click here to paste Screen print | |

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| 1. Use sort (only) to output ‘foo.txt’ in sorted order. | | 1 Pt |
| **Command:** | Click here to enter the answer to the question . | |
| **Screenprint**: | Click here to paste Screen print | |

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| 1. Use cat and pipe to wc –l to get a count of the number of entries in ‘foo.txt’ | | 1 Pt |
| **Command:** | Click here to enter the answer to the question . | |
| **Screenprint**: | Click here to paste Screen print | |

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| 1. Use sort and pipe to uniq with the -c switch to output a list of duplicate lines preceded by the number of times the line occurs.   Your output should look something like this:    But show me the whole list. | | 1 Pt |
| **Command:** | Click here to enter the answer to the question . | |
| **Screenprint**: | Click here to paste Screen print | |

## Module 4 – Section 2

1. Using gedit**,** create a file called **softkitty** on your system.
2. Enter the following text in the softkitty file:

**Soft kitty,**

**Warm kitty,**

**Little ball of fur.**

**Happy kitty,**

**Sleepy kitty,**

**Purr Purr Purr.**

1. Save the file and close it.
2. Use cat to view the softkitty file on standard output. Familiarize yourself with the text of the file. It is a 6-line song. Make sure you have not made any spelling errors. If you did, edit your file

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| 1. Just read the file to see how many times do the following words appear? Do not use any technology. | | 4 Pts |
| Soft | Answer | |
| kitty | Answer | |
| of | Answer | |
| Purr | Answer | |

It was easy to count the instances of the words since our file is so small. Unfortunately in the “real-world” you files will be much larger and you will have to be able to use tools to help you analyze them efficiently. Let’s use some of those tools on this small file to familiarize ourselves with their capabilities.

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| 1. Use the command **grep kitty softkitty**  * How many times did the word kitty appear? * What made it easier to count? | | 2 Pts |
| **Answer:** | Click here to enter the answer to the question . | |

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| 1. Use the command **grep –c soft softkitty**  * How many times does the word “soft” appear? * Why? | | 2 Pts |
| **Answer:** | Click here to enter the answer to the question . | |

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| 1. Use the command **grep –ic soft softkitty**  * Now, how many times does the word “soft” appear? * What is the –i switch used for? | | 2 Pts |
| **Answer:** | Click here to enter the answer to the question . | |

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| 1. Use the command **grep –c of softkitty**  * How many times does grep indicate “of” appears? * Why do you think grep counted the number of times “of” appears differently than what you counted? | | 2 Pts |
| **Answer:** | Click here to enter the answer to the question . | |

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| 1. Remove the –c option in the last command to see the difference  * What was happening to alter the count of “of”? | | 1 Pts |
| **Answer:** | Click here to enter the answer to the question . | |

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| 1. Use the command **grep –w of softkitty**   What is the –w switch used for? | | 1 Pts |
| **Answer:** | Click here to enter the answer to the question . | |
| **Screenprint**: | Click here to paste Screen print | |

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| 1. Use the command **grep –wc of softkitty**  * How many times does grep indicate the **word** “of” appear? * Is the count correct now? | | 2 Pts |
| **Answer:** | Click here to enter the answer to the question . | |

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| 1. Use the command **grep -n ball softkitty**  * On what line number does the word “ball” appear? * What is –n switch used for? | | 2 Pts |
| **Answer:** | Click here to enter the answer to the question . | |

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| 1. Use the command **grep -v kitty softkitty** &Analyze the results.  * What is –v switch used for? | | 2 Pts |
| **Answer:** | Click here to enter the answer to the question . | |