Lab3:

The main idea of this assignment is to provide hands on experience on the following topics

Grep

Pipe

redirection

read

command Line arguments

head,tail,tr

1. Create a file “poem.txt” with the following lines

We have not wings, we cannot soar;  
But we have feet to scale and climb  
By slow degrees, by more and more,  
The cloudy summits of our time.

The mighty pyramids of stone  
That wedge-like cleave the desert airs,  
When nearer seen and better known,  
Are but gigantic flights of stairs.

The distant mountains, that uprear  
Their solid bastions of the skies,  
Are crossed by pathways that appear  
As we to higher levels rise.

The heights by great men reached and kept  
Were not attained by sudden flight,  
But they, while their companions slept,  
Were toiling upward in the night.

END

Henry Wadsworth Longfellow (1807–1882) was an American poet and educator.

Do the following task using grep command

1. Print all the lines with the pattern “they”

grep ‘they’ poem.txt

1. Print all the lines other than pattern “They”

grep -v ‘they’ poem.txt

1. Print all the lines starts with “w”

grep ‘^w’ poem.txt

1. Print the next lines after the pattern “stone” matches

grep -A 1 ‘stone’ poem.txt

Hint: man grep

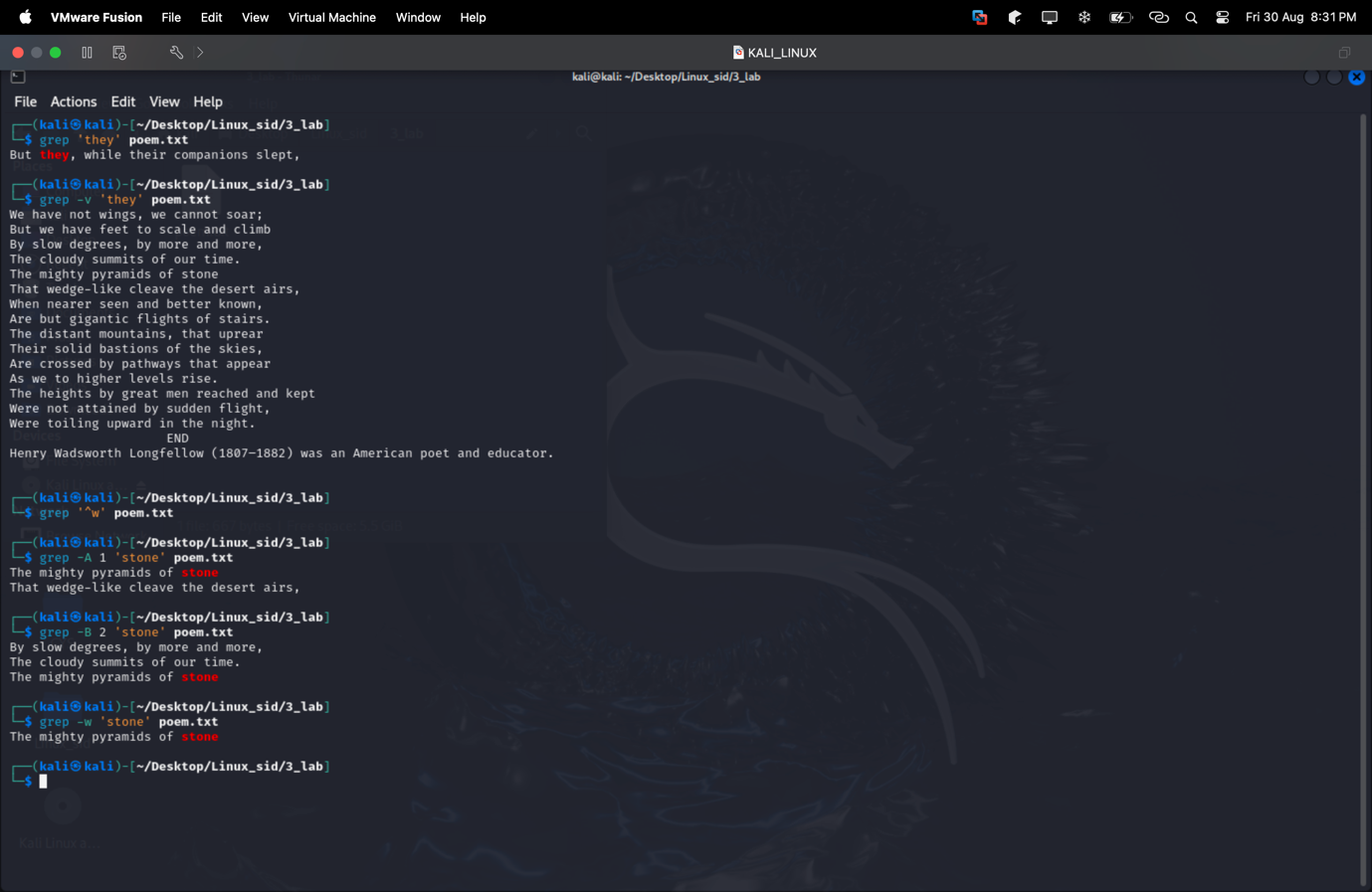
1. Print the 2 lines above the pattern “stone” matches

grep -B 2 ‘stone’ poem.txt

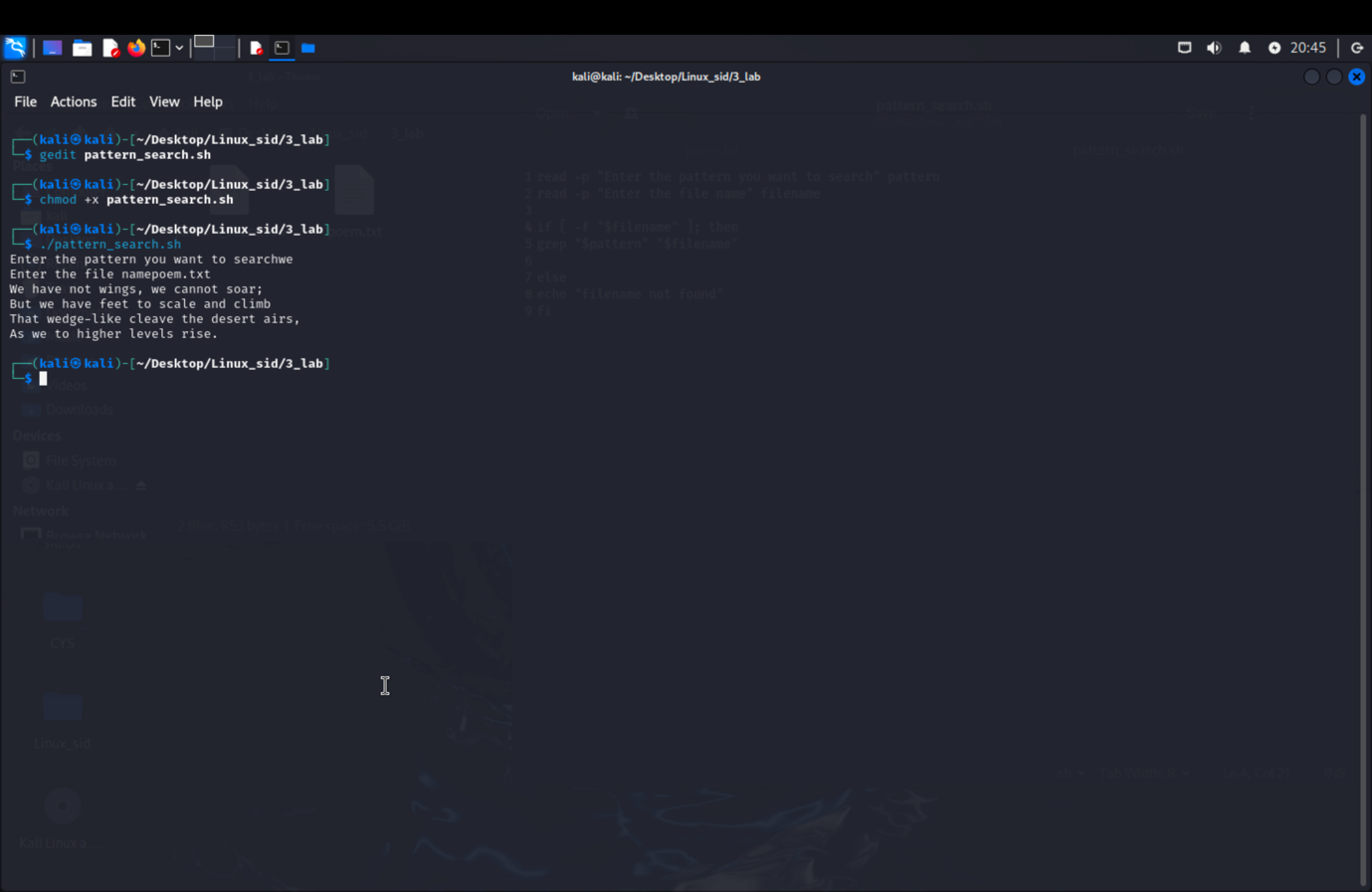
Hint: man grep

1. Search the pattern with exact match

grep -w ‘stone’ poem.txt



1. Explore variations of grep command
2. ngrep
3. pgrep
4. zgrep
5. egrep
6. Write a shell script to get the pattern and filenames from the user and check whether the pattern is present or not.



1. Rewrite the above shell script using command line arguments. ( pass the pattern and file through command line arguments)

CODE IN ABOBE SCRIPT

1. Write a shell script to count toA screenshot of a computer

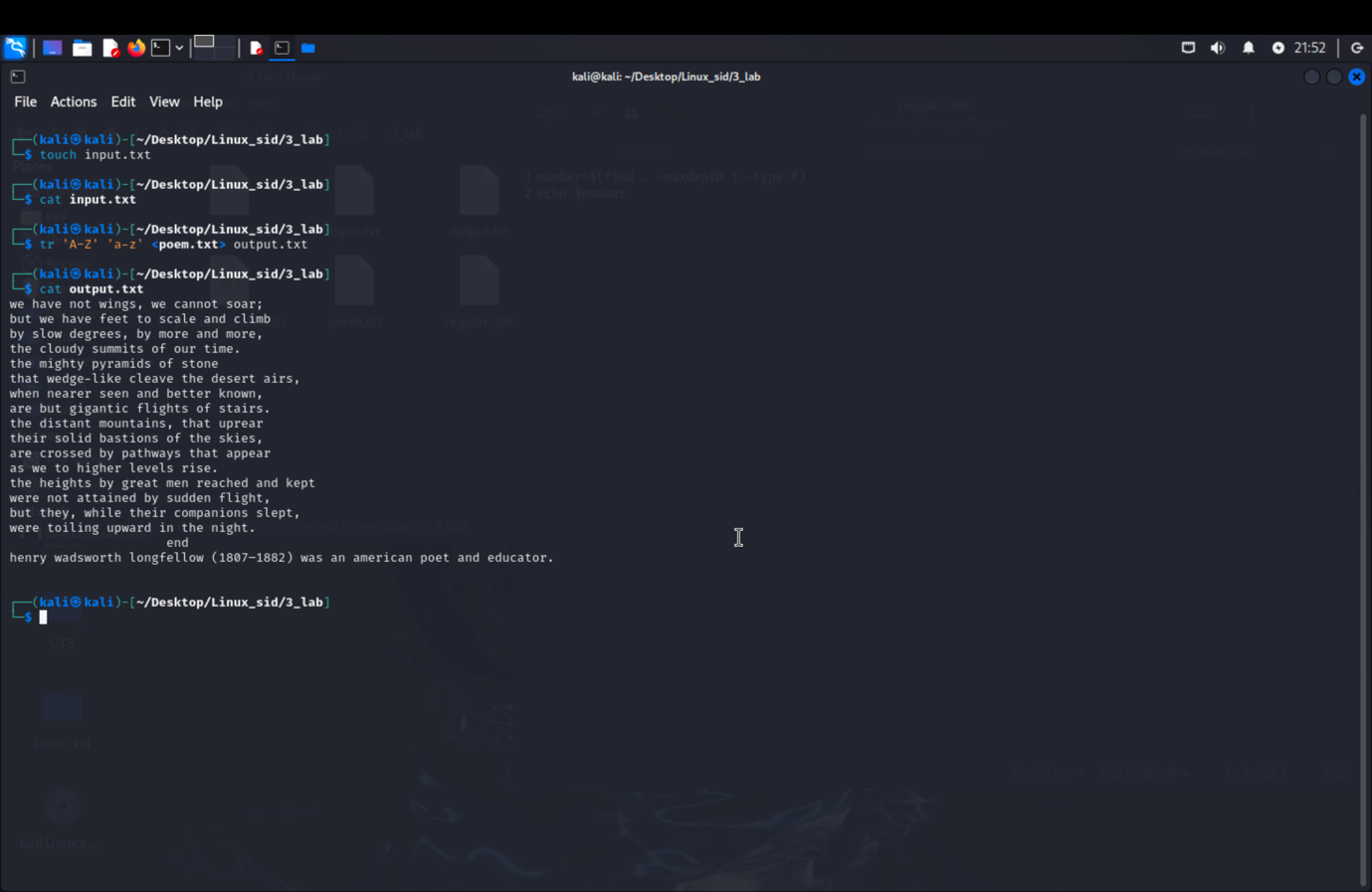
   Description automatically generatedtal number of regular files in the current working directory.
2. pipe
3. Pick the line from 3 to 5. A screenshot of a computer

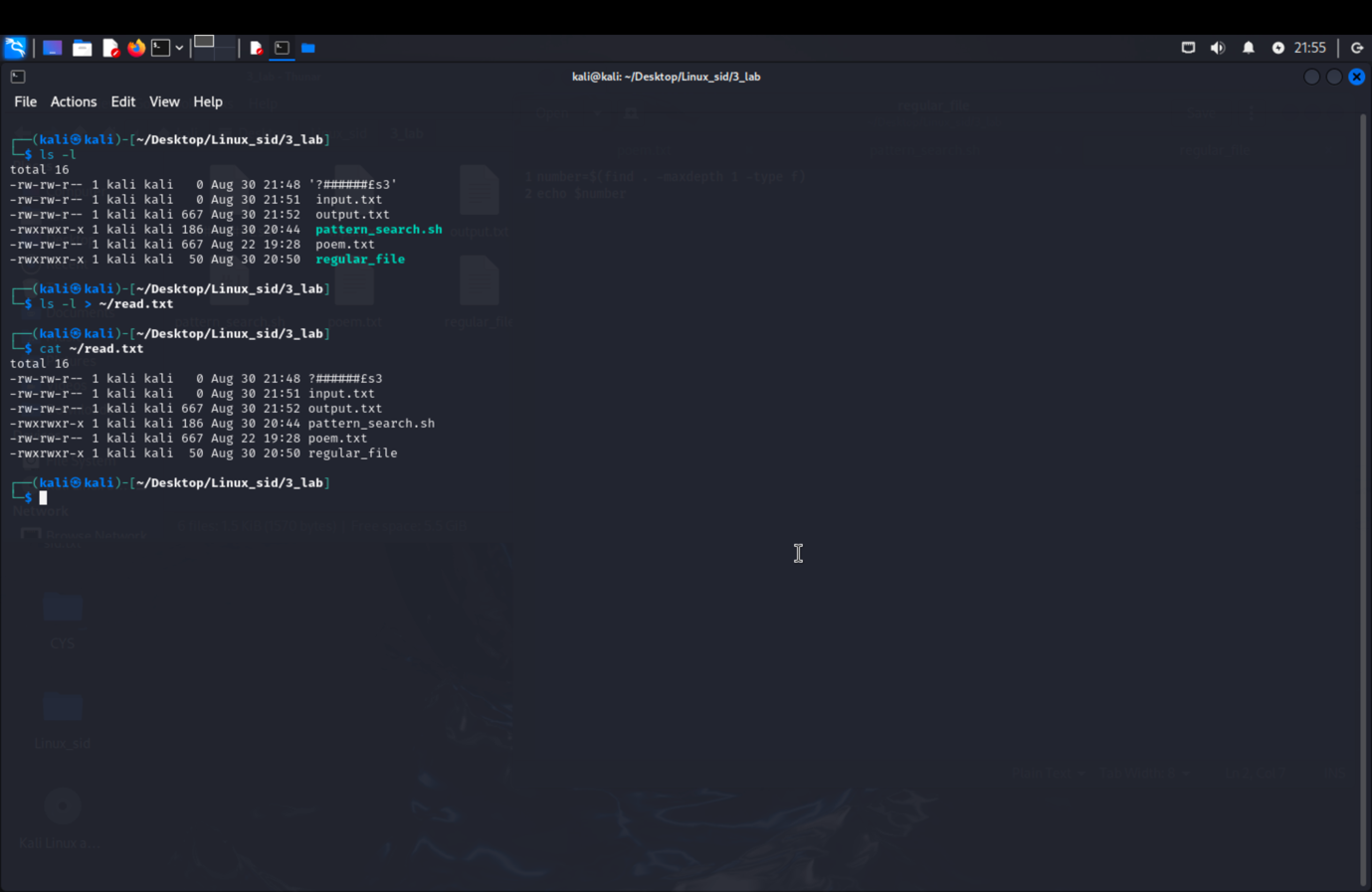
   Description automatically generated
4. List the top 5 largest files in a directory and display their sizes

ls -ls | head -n 6

1. Print the last 2 modified file details

ls -ls |head -n 3

1. Redirection
2. Convert uppercase into lowercase characters 
3. List the contents of your current directory, including the ownership and permissions, and redirect the output to a file called contents.txt within your home directory.



1. Rewrite the shell script (3) using <<

“You don't have to see the whole staircase, just take the first step.”

― **Martin Luther King Jr.**