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.

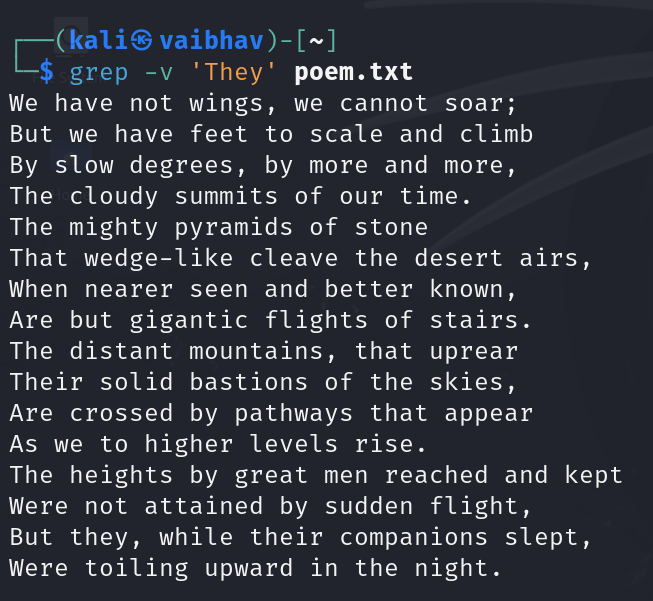
The heights by great men reached and kept  
Were not attained by sudden flight,  
But they, while their companions slept,  
Were toiling upward in the night.

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”   
   A computer screen shot of a computer code

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2. Print all the lines other than pattern “They”  
   
3. Print all the lines starts with “w”  
   A close-up of a text

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

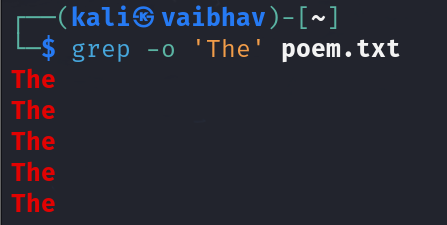
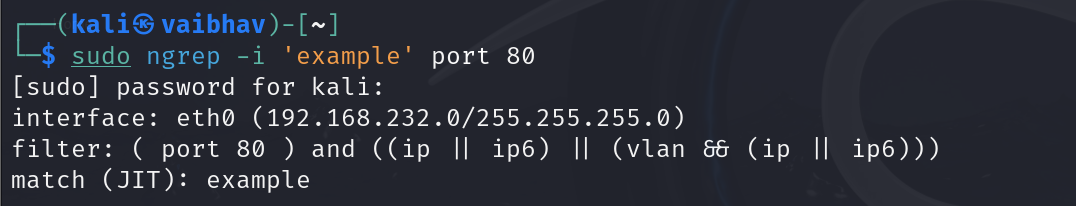
Hint: man grep   
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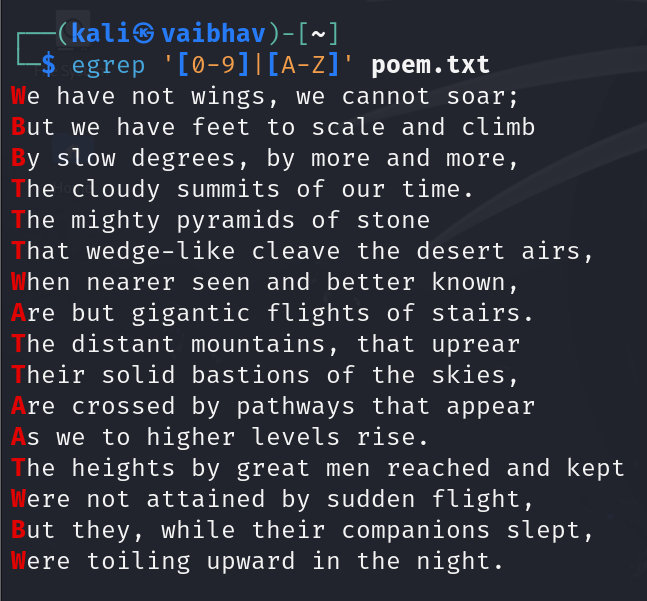
1. Print the 2 lines above the pattern “stone” matches

Hint: man grep   
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1. Search the pattern with exact match  
   
2. Explore variations of grep command
3. ngrep  
   
4. pgrep  
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5. zgrep  
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6. egrep   
   
7. Write a shell script to get the pattern and filenames from the user and check whether the pattern is present or not.   
   A computer screen shot of white text

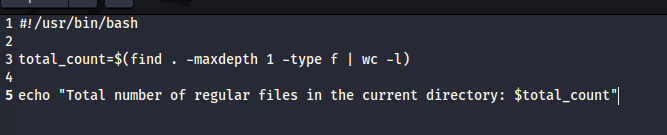
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   A computer screen shot of a code

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8. Rewrite the above shell script using command line arguments. ( pass the pattern and file through command line arguments)   
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Description automatically generated

1. Write a shell script to count total number of regular files in the current working directory.  
     
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2. pipe
3. Pick the line from 3 to 5.

A screen shot of a computer code

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1. List the top 5 largest files in a directory and display their sizes  
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2. Print the last 2 modified file details   
   A screenshot of a computer

   Description automatically generated
3. Redirection
4. Convert uppercase into lowercase characters  
   A computer screen shot of a poem

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   A screenshot of a computer screen

   Description automatically generated
5. 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.  
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   Description automatically generated
6. Rewrite the shell script (3) using <<

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A computer screen shot of a computer code

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

― **Martin Luther King Jr.**