**Anushri Sapate**

**Div A CS(AI)**

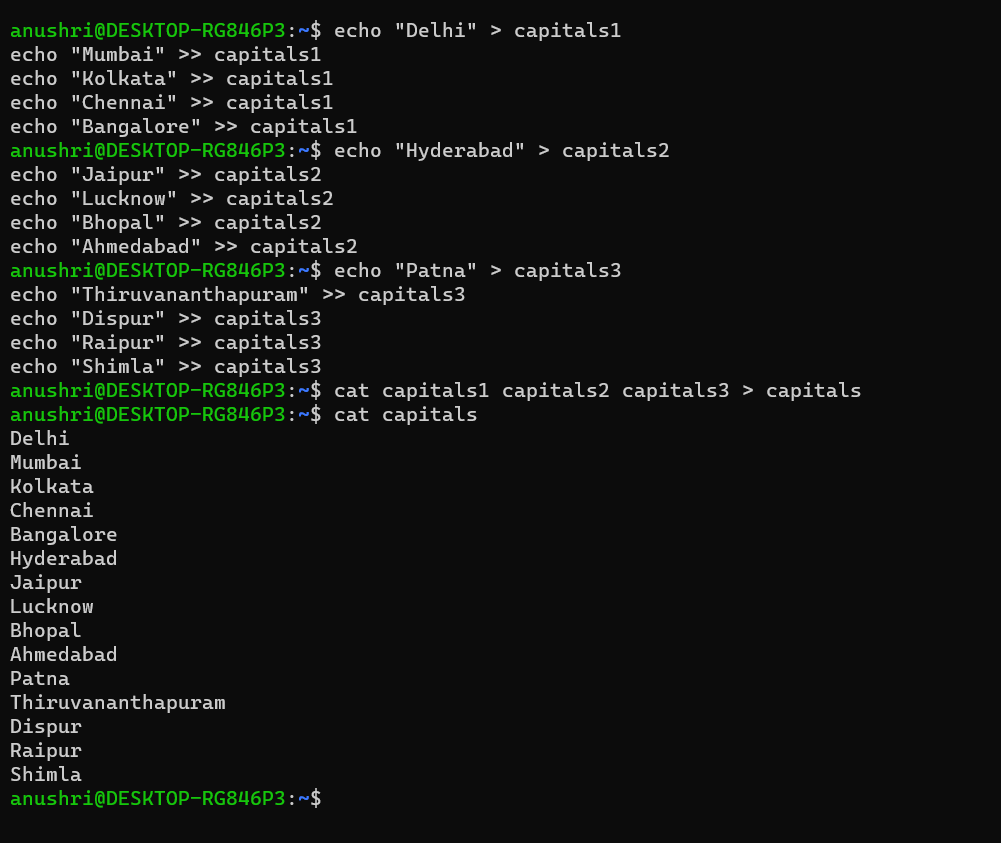
**Roll no. 59**

**Lab Assignment 2**

**Advance Linux Command**

**Problems to be solved in the lab:**

1. Select any 5 capitals of states in India and enter them in a file named *capitals1*. Choose 5 more capitals and enter them in a file named *capitals2*. Choose 5 more capitals and enter them in a file named *capitals3*. Concatenate all 3 files and redirect the output to a file named *capitals*.



1. Concatenate the file *capitals2* at the end of file *capitals*.

A screen shot of a computer

Description automatically generated

1. Redirect the file *capitals* as an input to the command “wc –l”.

A screenshot of a computer

Description automatically generated

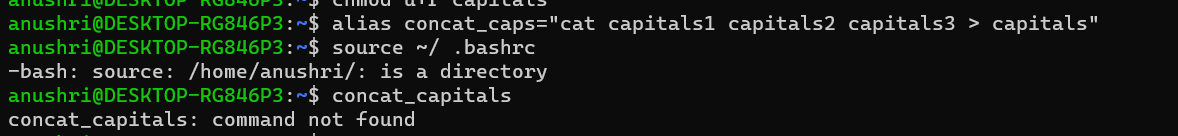
1. Give read and write permissions to all users for the file *capitals*.



1. Give read permissions only to the owner of the file *capitals*. Open the file, make some changes and try to save it. What happens?



1. Create an alias to concatenate the 3 files *capitals1*, *capitals2*, *capitals3* and redirect the output to a file named *capitals*. Activate the alias and make it run.

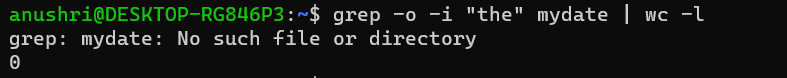


1. What are the environment variables PATH, HOME and TERM set to on your terminal

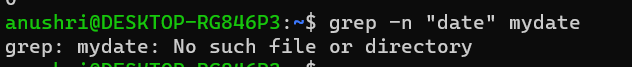
A black screen with white text

Description automatically generated

1. Find out the number of times the string “the” appears in the file *mydate*.



1. Find out the line numbers on which the string “date” exists in *mydate*.



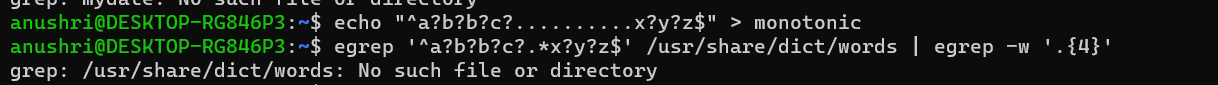
1. Print all lines of *mydate* except those that have the letter “i” in them.



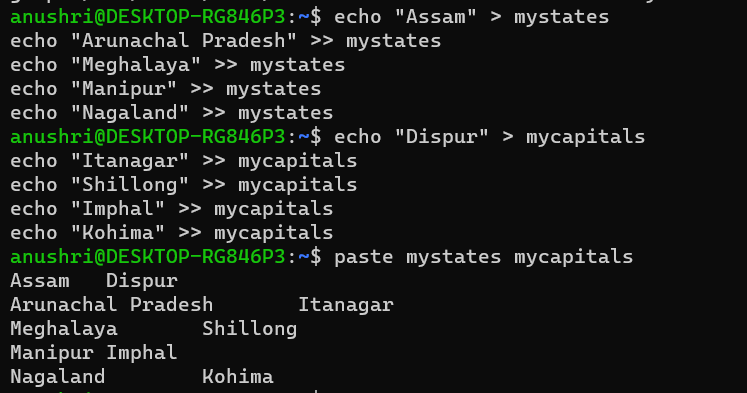
1. Create the file *monotonic* as follows:

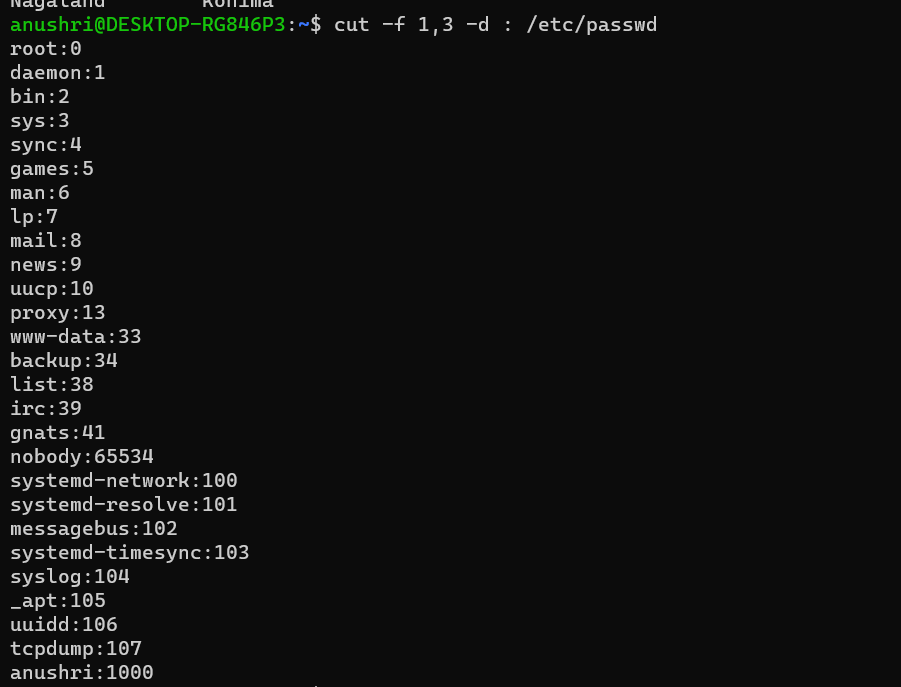
^a?b?b?c?…………..x?y?z$

Run the egrep command for *monotonic* against /usr/share/dict/words and search for all 4 letter words.



1. List 5 states in north east India in a file *mystates*. List their corresponding capitals in a file *mycapitals*. Use the *paste* command to join the 2 files.



1. Use the *cut* command to print the 1st and 3rd columns of the /etc/passwd file for all students in this class.
2. Count the number of people logged in and also trap the users in a file using the *tee* command.

