**Write down Linux commands for following statements:**

1. **Redirect the output of ls command to a file named outfile. Use this as an input file for remaining commands.**

* **Transfer all ls data into the file named outfile**

**root@DESKTOP-EIQ2TNC:~# ls > outfile**

**root@DESKTOP-EIQ2TNC:~# cat outfile**

1. **To select the lines in a file which has digit as one of the character in that**

**line and redirect the output to the file named list.**

* **Select such line that contains “one” and copy that lines into the file named list.**

**root@DESKTOP-EIQ2TNC:~# cat > sample\_page.txt**

**I am Programmer**

**studing at vishwakarma institute of technology one**

**what is your name**

**and you know one p**

**cat boll**

**once the rocky**

**that time**

**^C**

**root@DESKTOP-EIQ2TNC:~# grep -h "one" sample\_page.txt > list.txt**

**root@DESKTOP-EIQ2TNC:~# cat list.txt**

**studing at vishwakarma institute of technology one**

**and you know one p**

1. **Assign execute permission to owner and remove read permission from**

**other for an ordinary file named test by relative way.**

* **chmod 740 test.sh**

**root@DESKTOP-EIQ2TNC:~# ls -l test.sh**

**-rw-r--rw- 1 root root 32 Dec 11 17:32 test.sh**

**root@DESKTOP-EIQ2TNC:~# chmod u+x test.sh**

**root@DESKTOP-EIQ2TNC:~# ls -l test.sh**

**-rwxr--rw- 1 root root 32 Dec 11 17:32 test.sh**

**root@DESKTOP-EIQ2TNC:~# chmod o-r test.sh**

**root@DESKTOP-EIQ2TNC:~# ls -l test.sh**

**-rwxr---w- 1 root root 32 Dec 11 17:32 test.sh**

1. **Create an alias named rm that always deletes file interactively.**

* **Create cheet command for delete**

**root@DESKTOP-EIQ2TNC:~# alias rm=rm**

**root@DESKTOP-EIQ2TNC:~# ls list**

**list**

**root@DESKTOP-EIQ2TNC:~# rm list**

**root@DESKTOP-EIQ2TNC:~# ls list**

**ls: cannot access 'list': No such file or directory**

**root@DESKTOP-EIQ2TNC:~#**

1. **Count the currently login users to the system.**

* **Loged in users**

**root@DESKTOP-EIQ2TNC:~# w**

**17:47:59 up 2:30, 0 users, load average: 0.00, 0.00, 0.00**

**USER TTY FROM LOGIN@ IDLE JCPU PCPU WHAT**

1. **Redirect the output of cat command to a file named outfile. Use this as an input file for remaining commands.**

* **Copy all data of cat into the file named outfile**

**root@DESKTOP-EIQ2TNC:~# cat >> sample1.txt > outfile.txt**

**1. Redirect the output of cat command to a file named outfile. Use this as an input file for remaining commands.**

**clear**

**^C**

**root@DESKTOP-EIQ2TNC:~# cat outfile.txt**

**1. Redirect the output of cat command to a file named outfile. Use this as an input file for remaining commands.**

**clear**

1. **List all hidden files under current directory and store in “hidden” file**

* **Only hidden files**

**root@DESKTOP-EIQ2TNC:~# ls -A | grep "^\." > hidden.txt**

**root@DESKTOP-EIQ2TNC:~# cat hidden.txt**

**.bash\_history**

**.bashrc**

**.digi\_watch.sh.swo**

**.local**

**.motd\_shown**

**.profile**

**.sort\_array.sh.swp**

**.viminfo**

1. **Assign write permission to owner and remove execute permission from**

**other for an ordinary file named test by absolute way.**

* **chmod 666 test.sh**

**root@DESKTOP-EIQ2TNC:~# ls -l test.sh**

**-r--rw-rwx 1 root root 32 Dec 11 17:32 test.sh**

**root@DESKTOP-EIQ2TNC:~# chmod 666 test.sh**

**root@DESKTOP-EIQ2TNC:~# ls -l test.sh**

**-rw-rw-rw- 1 root root 32 Dec 11 17:32 test.sh**

1. **To create soft and hard link for given file**

* **Soft link**

**root@DESKTOP-EIQ2TNC:~# ln -s test.sh link.sh**

**root@DESKTOP-EIQ2TNC:~# ls -l link.sh**

**lrwxrwxrwx 1 root root 7 Dec 11 18:13 link.sh -> test.sh**

**hard link**

**root@DESKTOP-EIQ2TNC:~# ln list.txt link.txt**

**root@DESKTOP-EIQ2TNC:~# ls -l link.txt**

**-rw-r--r-- 2 root root 70 Dec 11 17:16 link.txt**

1. **To convert lowercase to upper case of a given file.**

* **Lowercase to upper case**

**root@DESKTOP-EIQ2TNC:~# cat >> items.txt**

**1. Cat**

**2. Dog**

**3. Hourse**

**4. Cammel**

**^C**

**root@DESKTOP-EIQ2TNC:~# tr a-z A-Z < items.txt**

**1. CAT**

**2. DOG**

**3. HOURSE**

**4. CAMMEL**

1. **To extract 1st and 10th character of a given file.**

* **1st**

**root@DESKTOP-EIQ2TNC:~# cat list.txt**

**The sed command stands for Stream EDitor. It’s a tool that we can use to modify a text stream**

**The sed coroot@DESKTOP-EIQ2TNC:~# head -c 1 list.txt**

**T**

**10th**

1. **To display how many times lines are repeated in a given file.**

* **sort sample1.txt | uniq -c**

**root@DESKTOP-EIQ2TNC:~# cat >> sample1.txt**

**I will choose MAC OS.**

**I will choose Linux.**

**I will choose MAC OS.**

**I will choose Linux.**

**I will choose MAC OS.**

**I will choose Linux.**

**I will choose Linux.**

**I will choose Microsoft Windows.**

**I will choose Linux.**

**I will choose Linux.**

**^C**

**root@DESKTOP-EIQ2TNC:~# sort sample1.txt | uniq -c**

**6 I will choose Linux.**

**3 I will choose MAC OS.**

**1 I will choose Microsoft Windows.**

1. **To redirect the output of cp command to a file named outfile. Use this as an input file for remaining commands.**

* **root@DESKTOP-EIQ2TNC:~# cp a.txt b.txt**

**root@DESKTOP-EIQ2TNC:~# cat b.txt > outfile1.txt**

**root@DESKTOP-EIQ2TNC:~# cat b.txt**

**He is good guy**

**root@DESKTOP-EIQ2TNC:~# cat outfile1.txt**

**He is good guy**

1. **To select the lines in a file which has 4 letter words in that line and**

**redirect the output to the file named list.**

* **D**

1. **Assign write permission to owner and remove read permission from group user for an ordinary file named test by relative way.**

* **chmod 626 test.sh**

**root@DESKTOP-EIQ2TNC:~# ls -l test.sh**

**-r-xrwxrwx 1 root root 32 Dec 11 17:32 test.sh**

**root@DESKTOP-EIQ2TNC:~# chmod u+w test.sh**

**root@DESKTOP-EIQ2TNC:~# ls -l test.sh**

**-rwxrwxrwx 1 root root 32 Dec 11 17:32 test.sh**

**root@DESKTOP-EIQ2TNC:~# chmod g-r test.sh**

**root@DESKTOP-EIQ2TNC:~# ls -l test.sh**

**-rwx-wxrwx 1 root root 32 Dec 11 17:32 test.sh**

1. **Create an alias named ls that always lists all the files including hidden**

**files.**

* **ls -a**

**root@DESKTOP-EIQ2TNC:~# ls -a**

**. items.txt**

**.. library\_management\_system.sh**

**.bash\_history link.sh**

**.bashrc link.txt**

**.digi\_watch.sh.swo list.txt**

**.local outfile.txt**

**.motd\_shown outfile1.txt**

**.profile palindrome\_num.sh**

**.sort\_array.sh.swp prime\_or\_not.sh**

**.viminfo reader\_writer.c**

**a.txt rest\_management\_system.sh**

**b.txt restaurant\_management\_system.sh**

**bookRecords.ldb restaurant\_management\_system.sh.save**

**calculator.sh reverse\_num.sh**

**calculator\_cp.sh sample1.txt**

**digi\_watch.sh sample\_page.txt**

**digi\_watch.sh.save sort\_array.sh**

**factorial\_rec.sh std\_management\_system.sh**

**factorial\_without\_rec.sh std\_management\_system.sh.save**

**geekfile.txt substring.sh**

**hidden.txt test.sh**

**hidden1**

1. **Count the number of words in the list file.**

* **wc -w filename**

**root@DESKTOP-EIQ2TNC:~# cat list.txt**

**The sed command stands for Stream EDitor. It’s a tool that we can use to modify a text stream**

**root@DESKTOP-EIQ2TNC:~# wc -w list.txt**

**19 list.txt**

1. **Redirect the output of mv command to a file named outfile. Use this as**

**an input file for remaining commands.**

* **root@DESKTOP-EIQ2TNC:~# mv b.txt outfile2.txt**

**root@DESKTOP-EIQ2TNC:~# cat outfile2.txt**

**He is good guy**

**root@DESKTOP-EIQ2TNC:~# ls b.txt**

**ls: cannot access 'b.txt': No such file or directory**

1. **List all hidden files under current directory and store in “hidden” file**

* **ls -a**

**root@DESKTOP-EIQ2TNC:~# ls -a > hidden2.txt**

**root@DESKTOP-EIQ2TNC:~# cat hidden2.txt**

**.**

**..**

**.bash\_history**

**.bashrc**

**.digi\_watch.sh.swo**

**.local**

**.motd\_shown**

**.profile**

**.sort\_array.sh.swp**

**.viminfo**

**bookRecords.ldb**

**calculator.sh**

**calculator\_cp.sh**

**digi\_watch.sh**

**digi\_watch.sh.save**

**factorial\_rec.sh**

**factorial\_without\_rec.sh**

1. **Assign write permission to group user and remove execute permission**

**from owner for an ordinary file named test by absolute way.**

* **ls -l test.sh**

**root@DESKTOP-EIQ2TNC:~# ls -l test.sh**

**-rwxr----- 1 root root 32 Dec 11 17:32 test.sh**

**root@DESKTOP-EIQ2TNC:~# chmod 620 test.sh**

**root@DESKTOP-EIQ2TNC:~# ls -l test.sh**

**-rw--w---- 1 root root 32 Dec 11 17:32 test.sh**

1. **To extract 2nd and 3rd character of a given file.**