Experiment Number: 02

Problem Statement: Execution of advance Linux Commands

NAME:ARMAN NANDESHWAR ROLLNO: 05

CLASS: TY\_IT\_A BATCH: 1

DATE OF PERFORMANCE:

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**1.PR**

vboxuser@arman:~$ pr hello.txt

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ENO |ENAME |POST |DEPT |DOB |SAL

2233|a. k. shukla |g.m. |sales |12/12/52|6000

9876|jai sharma |director |production|12/03/50|7000

5678|sumit chakrobarthy|d.g.m. |marketing |19/04/43|6000

2365|barun sengupta |director |personnel |11/05/47|7800

5423|n. k. gupta |chairman |admin |30/08/56|6700

1265|karuna dasgupta |manager |sales |12/09/63|5600

2476|anil aggarwal |manager |sales |01/05/59|6000

3364|sudhir agarwal |executive|personnel |06/07/47|7500

0110|v. k. agarwal |g.m. |marketing |31/12/40|9000

3212|shyam saksena |d.g.m |accounts |12/12/55|6000

2365|barun sengupta |director |personnel |11/05/47|7800

2476|anil aggarwal |manager |sales |01/05/59|6000

vboxuser@arman:~$ pr -d -n -h "hello1" hello.txt

2023-07-12 22:54 hello1 Page 1

1 ENO |ENAME |POST |DEPT |DOB |SAL

2 2233|a. k. shukla |g.m. |sales |12/12/52|6000

3 9876|jai sharma |director |production|12/03/50|7000

4 5678|sumit chakrobarthy|d.g.m. |marketing |19/04/43|6000

5 2365|barun sengupta |director |personnel |11/05/47|7800

6 5423|n. k. gupta |chairman |admin |30/08/56|6700

7 1265|karuna dasgupta |manager |sales |12/09/63|5600

8 2476|anil aggarwal |manager |sales |01/05/59|6000

9 3364|sudhir agarwal |executive|personnel |06/07/47|7500

10 0110|v. k. agarwal |g.m. |marketing |31/12/40|9000

11 3212|shyam saksena |d.g.m |accounts |12/12/55|6000

12 2365|barun sengupta |director |personnel |11/05/47|7800

13 2476|anil aggarwal |manager |sales |01/05/59|6000

**2.HEAD**

vboxuser@arman:~$ head hello.txt

ENO |ENAME |POST |DEPT |DOB |SAL

2233|a. k. shukla |g.m. |sales |12/12/52|6000

9876|jai sharma |director |production|12/03/50|7000

5678|sumit chakrobarthy|d.g.m. |marketing |19/04/43|6000

2365|barun sengupta |director |personnel |11/05/47|7800

5423|n. k. gupta |chairman |admin |30/08/56|6700

1265|karuna dasgupta |manager |sales |12/09/63|5600

2476|anil aggarwal |manager |sales |01/05/59|6000

3364|sudhir agarwal |executive|personnel |06/07/47|7500

0110|v. k. agarwal |g.m. |marketing |31/12/40|9000

vboxuser@arman:~$ head -n 3 hello.txt

ENO |ENAME |POST |DEPT |DOB |SAL

2233|a. k. shukla |g.m. |sales |12/12/52|6000

9876|jai sharma |director |production|12/03/50|7000

**3.TAIL**

vboxuser@arman:~$ tail hello.txt

5678|sumit chakrobarthy|d.g.m. |marketing |19/04/43|6000

2365|barun sengupta |director |personnel |11/05/47|7800

5423|n. k. gupta |chairman |admin |30/08/56|6700

1265|karuna dasgupta |manager |sales |12/09/63|5600

2476|anil aggarwal |manager |sales |01/05/59|6000

3364|sudhir agarwal |executive|personnel |06/07/47|7500

0110|v. k. agarwal |g.m. |marketing |31/12/40|9000

3212|shyam saksena |d.g.m |accounts |12/12/55|6000

2365|barun sengupta |director |personnel |11/05/47|7800

2476|anil aggarwal |manager |sales |01/05/59|6000

vboxuser@arman:~$ tail -3 hello.txt

3212|shyam saksena |d.g.m |accounts |12/12/55|6000

2365|barun sengupta |director |personnel |11/05/47|7800

2476|anil aggarwal |manager |sales |01/05/59|6000

vboxuser@arman:~$ tail -c 6 hello.txt

|6000

**4.CUT**

vboxuser@arman:~$ cut -d"|" -f 2,5 hello.txt

ENAME |DOB

a. k. shukla |12/12/52

jai sharma |12/03/50

sumit chakrobarthy|19/04/43

barun sengupta |11/05/47

n. k. gupta |30/08/56

karuna dasgupta |12/09/63

anil aggarwal |01/05/59

sudhir agarwal |06/07/47

v. k. agarwal |31/12/40

shyam saksena |12/12/55

barun sengupta |11/05/47

anil aggarwal |01/05/59

vboxuser@arman:~$ cut -c 1-3 hello.txt

ENO

223

987

567

236

542

126

247

336

011

321

236

247

**5.PASTE**

vboxuser@arman:~$ cut -d"|" -f 1,3 hello.txt > cut1

vboxuser@arman:~$ cut -d"|" -f 1,6 hello.txt > cut2

vboxuser@arman:~$ cat cut1

ENO |POST

2233|g.m.

9876|director

5678|d.g.m.

2365|director

5423|chairman

1265|manager

2476|manager

3364|executive

0110|g.m.

3212|d.g.m

2365|director

2476|manager

vboxuser@arman:~$ cat cut2

ENO |SAL

2233|6000

9876|7000

5678|6000

2365|7800

5423|6700

1265|5600

2476|6000

3364|7500

0110|9000

3212|6000

2365|7800

2476|6000

vboxuser@arman:~$ paste -d"|" cut1 cut2

ENO |POST |ENO |SAL

2233|g.m. |2233|6000

9876|director |9876|7000

5678|d.g.m. |5678|6000

2365|director |2365|7800

5423|chairman |5423|6700

1265|manager |1265|5600

2476|manager |2476|6000

3364|executive|3364|7500

0110|g.m. |0110|9000

3212|d.g.m |3212|6000

2365|director |2365|7800

2476|manager |2476|6000

**6.SORT**

vboxuser@arman:~$ cat >numbers

10

18

14

56

89

69

25

30

2

8

10

vboxuser@arman:~$ sort -n numbers

2

8

10

10

14

18

25

30

56

69

89

vboxuser@arman:~$ sort -t"|" -k 1 hello.txt

0110|v. k. agarwal |g.m. |marketing |31/12/40|9000

1265|karuna dasgupta |manager |sales |12/09/63|5600

2233|a. k. shukla |g.m. |sales |12/12/52|6000

2365|barun sengupta |director |personnel |11/05/47|7800

2365|barun sengupta |director |personnel |11/05/47|7800

2476|anil aggarwal |manager |sales |01/05/59|6000

2476|anil aggarwal |manager |sales |01/05/59|6000

3212|shyam saksena |d.g.m |accounts |12/12/55|6000

3364|sudhir agarwal |executive|personnel |06/07/47|7500

5423|n. k. gupta |chairman |admin |30/08/56|6700

5678|sumit chakrobarthy|d.g.m. |marketing |19/04/43|6000

9876|jai sharma |director |production|12/03/50|7000

ENO |ENAME |POST |DEPT |DOB |SAL

**7.UNIQ**

vboxuser@arman:~$ cat msg

this is arman

this is arman

i am from vit

i am from vit

vboxuser@arman:~$ uniq msg

this is arman

i am from vit

vboxuser@arman:~$ uniq -c msg

2 this is arman

1

2 i am from vit

vboxuser@arman:~$ uniq -d msg

this is arman

i am from vit

**8.TR**

vboxuser@arman:~$ tr [a-z] [A-Z] < hello.txt

ENO |ENAME |POST |DEPT |DOB |SAL

2233|A. K. SHUKLA |G.M. |SALES |12/12/52|6000

9876|JAI SHARMA |DIRECTOR |PRODUCTION|12/03/50|7000

5678|SUMIT CHAKROBARTHY|D.G.M. |MARKETING |19/04/43|6000

2365|BARUN SENGUPTA |DIRECTOR |PERSONNEL |11/05/47|7800

5423|N. K. GUPTA |CHAIRMAN |ADMIN |30/08/56|6700

1265|KARUNA DASGUPTA |MANAGER |SALES |12/09/63|5600

2476|ANIL AGGARWAL |MANAGER |SALES |01/05/59|6000

3364|SUDHIR AGARWAL |EXECUTIVE|PERSONNEL |06/07/47|7500

0110|V. K. AGARWAL |G.M. |MARKETING |31/12/40|9000

3212|SHYAM SAKSENA |D.G.M |ACCOUNTS |12/12/55|6000

2365|BARUN SENGUPTA |DIRECTOR |PERSONNEL |11/05/47|7800

2476|ANIL AGGARWAL |MANAGER |SALES |01/05/59|6000

**9.TEE**

vboxuser@arman:~$ who |wc -l

1

vboxuser@arman:~$ who > usercount

vboxuser@arman:~$ wc -l usercount

1 usercount

vboxuser@arman:~$ who |tee ufile|wc -l

1

vboxuser@arman:~$ cat ufile

vboxuser tty2 2023-07-12 22:34 (tty2)

**10.GREP**

vboxuser@arman:~$ grep "shukla" hello.txt

2233|a. k. shukla |g.m. |sales |12/12/52|6000

vboxuser@arman:~$ grep -e"shukla" -e"sharma" -e"agarwal" hello.txt

2233|a. k. shukla |g.m. |sales |12/12/52|6000

9876|jai sharma |director |production|12/03/50|7000

3364|sudhir agarwal |executive|personnel |06/07/47|7500

0110|v. k. agarwal |g.m. |marketing |31/12/40|9000

vboxuser@arman:~$ grep -w "sharma" hello.txt

9876|jai sharma |director |production|12/03/50|7000

vboxuser@arman:~$ grep -i "Agarwal" hello.txt

3364|sudhir agarwal |executive|personnel |06/07/47|7500

0110|v. k. agarwal |g.m. |marketing |31/12/40|9000

vboxuser@arman:~$ grep -v "agarwal" hello.txt

ENO |ENAME |POST |DEPT |DOB |SAL

2233|a. k. shukla |g.m. |sales |12/12/52|6000

9876|jai sharma |director |production|12/03/50|7000

5678|sumit chakrobarthy|d.g.m. |marketing |19/04/43|6000

2365|barun sengupta |director |personnel |11/05/47|7800

5423|n. k. gupta |chairman |admin |30/08/56|6700

1265|karuna dasgupta |manager |sales |12/09/63|5600

2476|anil aggarwal |manager |sales |01/05/59|6000

3212|shyam saksena |d.g.m |accounts |12/12/55|6000

2365|barun sengupta |director |personnel |11/05/47|7800

2476|anil aggarwal |manager |sales |01/05/59|6000

vboxuser@arman:~$ grep -n "agarwal" hello.txt

9:3364|sudhir agarwal |executive|personnel |06/07/47|7500

10:0110|v. k. agarwal |g.m. |marketing |31/12/40|9000

vboxuser@arman:~$ grep -c "agarwal" hello.txt

2

**11.CHMOD**

vboxuser@arman:~$ chmod 777 hello.txt

vboxuser@arman:~$ chmod u+rwx hello.txt

vboxuser@arman:~$ chmod go-w hello.txt

**EXTRA COMMANDS**

**1.OD(DISPLAYS THE CONTENTS OF A FILE IN DIFFERENT FORMAT SUCH AS OCTAL ,HEXADECIMAL, ASCII )**

**-b (octal), -t x1(hexadecimal), -c (ascii)**

vboxuser@arman:~$ od -b hello.txt

0000000 105 116 117 040 174 105 116 101 115 105 040 040 040 040 040 040

0000020 040 040 040 040 040 040 040 174 120 117 123 124 040 040 040 040

0000040 040 174 104 105 120 124 040 040 040 040 040 040 174 104 117 102

0000060 040 040 040 040 040 174 123 101 114 012 062 062 063 063 174 141

0000100 056 040 153 056 040 163 150 165 153 154 141 040 040 040 040 040

0000120 040 174 147 056 155 056 040 040 040 040 040 174 163 141 154 145

0000140 163 040 040 040 040 040 174 061 062 057 061 062 057 065 062 174

0000160 066 060 060 060 012 071 070 067 066 174 152 141 151 040 163 150

0000200 141 162 155 141 040 040 040 040 040 040 040 040 174 144 151 162

**2.LOCATE(USED TO SEARCH A FILE BY FILENAME )**

vboxuser@arman:~$ locate hello.txt

/home/vboxuser/hello.txt

/home/vboxuser/Desktop/hello.txt

**3.ZIP AND UNZIP**

vboxuser@arman:~$ zip new.zip hello.txt

adding: hello.txt (deflated 53%)

vboxuser@arman:~$ unzip new.zip

Archive: new.zip

replace hello.txt? [y]es, [n]o, [A]ll, [N]one, [r]ename: A