Paste Experiment Number: 2

Problem Statement: **Execution of Advance Linux commands**

NAME: Aadesh Chawla ROLLNO: 12

CLASS: TY-IT-A BATCH: B1

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1. **pr :Paginating the file**

aadesh@aadesh-VirtualBox:~/Desktop/icecream$ pr employee.txt

**Output:**

2023-07-22 20:01 employee.txt Page 1

2233|a. k. shukla |g.m.|sales|12/12/52|6055

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

5678|sumit chsakrobsarty|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. agrawal|g.m.|marketing |31/12/40|9000

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

aadesh@aadesh-VirtualBox:~/Desktop/icecream$ pr -h "myfile" employee.txt

**output:**

2023-07-22 20:01 myfile Page 1

2233|a. k. shukla |g.m.|sales|12/12/52|6055

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

5678|sumit chsakrobsarty|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. agrawal|g.m.|marketing |31/12/40|9000

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

aadesh@aadesh-VirtualBox:~/Desktop/icecream$ pr -d -n -h "myfile" employee.txt

**output:**

2023-07-22 20:01 myfile Page 1

1 2233|a. k. shukla |g.m.|sales|12/12/52|6055

2 9876|jai sharma |director|production|12/03/50|7000

3 5678|sumit chsakrobsarty|d.g.m.|marketing |19/04/43|6000

4 2365|barun sengupta |director|personnel |11/05/47|7800

5 5423|n. k. gupta |chairman|admin|30/08/56|6700

6 1265|karuna dasgupta|manager|sales|12/09/63|5600

7 2476|anil aggarwal|manager|sales|01/05/59|6000

8 3364|sudhir Agarwal |executive|personnel |06/07/47|7500

9 0110|v. k. agrawal|g.m.|marketing |31/12/40|9000

10 3212|shyam saksena|d.g.m.|accounts|12/12/55|6000

1. **head:**

aadesh@aadesh-VirtualBox:~/Desktop/icecream$ head employee.txt

**output:**

2233|a. k. shukla |g.m.|sales|12/12/52|6055

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

5678|sumit chsakrobsarty|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. agrawal|g.m.|marketing |31/12/40|9000

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

aadesh@aadesh-VirtualBox:~/Desktop/icecream$ head -4 employee.txt

**output:**

2233|a. k. shukla |g.m.|sales|12/12/52|6055

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

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

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

aadesh@aadesh-VirtualBox:~/Desktop/icecream$ head -c 9 employee.txt

**output:**

2233|a. k

1. **tail:**

aadesh@aadesh-VirtualBox:~/Desktop/icecream$ tail employee.txt

**output:**

2233|a. k. shukla |g.m.|sales|12/12/52|6055

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

5678|sumit chsakrobsarty|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. agrawal|g.m.|marketing |31/12/40|9000

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

aadesh@aadesh-VirtualBox:~/Desktop/icecream$ tail -4 employee.txt

**output:**

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

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

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

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

aadesh@aadesh-VirtualBox:~/Desktop/icecream$ tail -c 15 employee.txt

**output:**

|12/12/55|6000

1. **cut:**

aadesh@aadesh-VirtualBox:~/Desktop/icecream$ cut -c 2-10 employee.txt

**output:**

233|a. k.

876|jai s

678|sumit

365|barun

423|n. k.

265|karun

476|anil

364|sudhi

110|v. k.

212|shyam

aadesh@aadesh-VirtualBox:~/Desktop/icecream$ cut -d "|" -f 1,3 employee.txt>cut1

aadesh@aadesh-VirtualBox:~/Desktop/icecream$ cat cut1

**output:**

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.

aadesh@aadesh-VirtualBox:~/Desktop/icecream$ cut -d "|" -f 2,4 employee.txt>cut2

aadesh@aadesh-VirtualBox:~/Desktop/icecream$ cat cut2

**output:**

a. k. shukla |sales

jai sharma |production

sumit chsakrobsarty|marketing

barun sengupta |personnel

n. k. gupta |admin

karuna dasgupta|sales

anil aggarwal|sales

sudhir Agarwal |personnel

v. k. agrawal|marketing

shyam saksena|accounts

1. **paste:**

aadesh@aadesh-VirtualBox:~/Desktop/icecream$ paste cut1 cut2

**output:**

2233|g.m. a. k. shukla |sales

9876|director jai sharma |production

5678|d.g.m. sumit chsakrobsarty|marketing

2365|director barun sengupta |personnel

5423|chairman n. k. gupta |admin

1265|manager karuna dasgupta|sales

2476|manager anil aggarwal|sales

3364|executive sudhir Agarwal |personnel

0110|g.m. v. k. agrawal|marketing

3212|d.g.m. shyam saksena|accounts

aadesh@aadesh-VirtualBox:~/Desktop/icecream$ paste -d "|" cut1 cut2

**output:**

2233|g.m. |a. k. shukla |sales

9876|director |jai sharma |production

5678|d.g.m. |sumit chsakrobsarty|marketing

2365|director |barun sengupta |personnel

5423|chairman |n. k. gupta |admin

1265|manager |karuna dasgupta|sales

2476|manager |anil aggarwal|sales

3364|executive |sudhir Agarwal |personnel

0110|g.m. |v. k. agrawal|marketing

3212|d.g.m. |shyam saksena|accounts

1. **sort:**

aadesh@aadesh-VirtualBox:~/Desktop/icecream$ sort -n numbers

**output:**

1

1

3

4

4

4

6

6

6

8

9

12

23

23

43

56

786

867

4325

aadesh@aadesh-VirtualBox:~/Desktop/icecream$ sort -t "|" -k 1 employee.txt

**output:**

0110|v. k. agrawal|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|6055

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

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 chsakrobsarty|d.g.m.|marketing |19/04/43|6000

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

1. **uniq:**

aadesh@aadesh-VirtualBox:~/Desktop/icecream$ uniq employee.txt

**output:**

2233|a. k. shukla |g.m.|sales|12/12/52|6055

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

5678|sumit chsakrobsarty|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. agrawal|g.m.|marketing |31/12/40|9000

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

aadesh@aadesh-VirtualBox:~/Desktop/icecream$ uniq -c employee.txt

**output:**

1 2233|a. k. shukla |g.m.|sales|12/12/52|6055

1 9876|jai sharma |director|production|12/03/50|7000

1 5678|sumit chsakrobsarty|d.g.m.|marketing |19/04/43|6000

1 2365|barun sengupta |director|personnel |11/05/47|7800

1 5423|n. k. gupta |chairman|admin|30/08/56|6700

1 1265|karuna dasgupta|manager|sales|12/09/63|5600

1 2476|anil aggarwal|manager|sales|01/05/59|6000

1 3364|sudhir Agarwal |executive|personnel |06/07/47|7500

1 0110|v. k. agrawal|g.m.|marketing |31/12/40|9000

1 3212|shyam saksena|d.g.m.|accounts|12/12/55|6000

aadesh@aadesh-VirtualBox:~/Desktop/icecream$ uniq -d employee.txt

1. **tr :**

aadesh@aadesh-VirtualBox:~/Desktop/icecream$ tr [a-z] [A-Z] < employee.txt

**output:**

2233|A. K. SHUKLA |G.M.|SALES|12/12/52|6055

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

5678|SUMIT CHSAKROBSARTY|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. AGRAWAL|G.M.|MARKETING |31/12/40|9000

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

1. **tee:**

aadesh@aadesh-VirtualBox:~/Desktop/icecream$ who | tee ufile | wc -l

1

aadesh@aadesh-VirtualBox:~/Desktop/icecream$ cat ufile

aadesh tty2 2023-07-22 19:47 (tty2)

1. **grep:**

aadesh@aadesh-VirtualBox:~/Desktop/icecream$ grep "sales" employee.txt

**output:**

2233|a. k. shukla |g.m.|sales|12/12/52|6055

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

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

aadesh@aadesh-VirtualBox:~/Desktop/icecream$ grep -c "sales" employee.txt

**output:**

3

aadesh@aadesh-VirtualBox:~/Desktop/icecream$ grep -n "sales" employee.txt

**output:**

1:2233|a. k. shukla |g.m.|sales|12/12/52|6055

6:1265|karuna dasgupta|manager|sales|12/09/63|5600

7:2476|anil aggarwal|manager|sales|01/05/59|6000

aadesh@aadesh-VirtualBox:~/Desktop/icecream$ grep -v "sales" employee.txt

**output:**

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

5678|sumit chsakrobsarty|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

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

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

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

aadesh@aadesh-VirtualBox:~/Desktop/icecream$ grep "SALES" employee.txt

aadesh@aadesh-VirtualBox:~/Desktop/icecream$ grep -i "SALES" employee.txt

**output:**

2233|a. k. shukla |g.m.|sales|12/12/52|6055

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

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

aadesh@aadesh-VirtualBox:~/Desktop/icecream$ grep -i -n "SALES" employee.txt

**output:**

1:2233|a. k. shukla |g.m.|sales|12/12/52|6055

6:1265|karuna dasgupta|manager|sales|12/09/63|5600

7:2476|anil aggarwal|manager|sales|01/05/59|6000

aadesh@aadesh-VirtualBox:~/Desktop/icecream$ grep -i "manager" employee.txt aad.txt

**output:**

employee.txt:1265|karuna dasgupta|manager|sales|12/09/63|5600

employee.txt:2476|anil aggarwal|manager|sales|01/05/59|6000

aad.txt:manager|khgsfd| kjhsfd|126753

aadesh@aadesh-VirtualBox:~/Desktop/icecream$ grep -e "sales" -e "manager" -e "gupta" employee.txt

**output:**

2233|a. k. shukla |g.m.|sales|12/12/52|6055

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

aadesh@aadesh-VirtualBox:~/Desktop/icecream$ cat> pattern

sales

manager

gupta

shyam

aadesh@aadesh-VirtualBox:~/Desktop/icecream$ grep -f pattern employee.txt

**output:**

2233|a. k. shukla |g.m.|sales|12/12/52|6055

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

aadesh@aadesh-VirtualBox:~/Desktop/icecream$ grep -w "sengupta" employee.txt

**output:**

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

aadesh@aadesh-VirtualBox:~/Desktop/icecream$ grep "^2" employee.txt

**output:**

2233|a. k. shukla |g.m.|sales|12/12/52|6055

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

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

aadesh@aadesh-VirtualBox:~/Desktop/icecream$ grep "$7000" employee.txt

**output:**

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

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

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

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

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

1. **error redirection:**

aadesh@aadesh-VirtualBox:~/Desktop/icecream$ cat unix 2> errorfiie

aadesh@aadesh-VirtualBox:~/Desktop/icecream$ cat errorfile

**output:**

cat: errorfile: No such file or directory

1. **lsof: List open files and the processes that opened them.**

aadesh@aadesh-VirtualBox:~/Desktop/icecream$ lsof

**output:**

lsof 2691 aadesh mem REG 8,3 613064 2911288 /usr/lib/x86\_64-linux-gnu/libpcre2-8.so.0.10.4

lsof 2691 aadesh mem REG 8,3 338648 2910856 /usr/lib/x86\_64-linux-gnu/libgssapi\_krb5.so.2.2

lsof 2691 aadesh mem REG 8,3 166280 2911440 /usr/lib/x86\_64-linux-gnu/libselinux.so.1

1. **Permissions :**

aadesh@aadesh-VirtualBox:~/Desktop/icecream$ ls -l aad.txt

**output:**

-rw-rw-r-- 1 aadesh aadesh 76 Jul 22 22:21 aad.txt

1. **Chmod relative manner:**aadesh@aadesh-VirtualBox:~/Desktop/icecream$ chmod u+x,o+w,g-w aad.txt

aadesh@aadesh-VirtualBox:~/Desktop/icecream$ ls -l aad.txt

**output:**

-rwxr--rw- 1 aadesh aadesh 76 Jul 22 22:21 aad.txt

1. **Chmod absolute manner:**

aadesh@aadesh-VirtualBox:~/Desktop/icecream$ chmod 675 aad.txt

aadesh@aadesh-VirtualBox:~/Desktop/icecream$ ls -l aad.txt

**output:**

-rw-rwxr-x 1 aadesh aadesh 76 Jul 22 22:21 aad.txt

1. **Chown:**

aadesh@aadesh-VirtualBox:~/Desktop/icecream$ chown "aadesh" aad.txt

1. **Chgrp :**aadesh@aadesh-VirtualBox:~/Desktop/icecream$ chgrp "aadesh" aad.txt
2. **Watch:**

aadesh@aadesh-VirtualBox:~/Desktop/icecream$ watch echo Aadesh

1. **Pv (pipe viewer):**

aadesh@aadesh-VirtualBox:~/Desktop/icecream$ pv aad.txt > test.txt

**output:**

76.0 B 0:00:00 [ 720KiB/s] [============================================================================================================================================================>] 100%