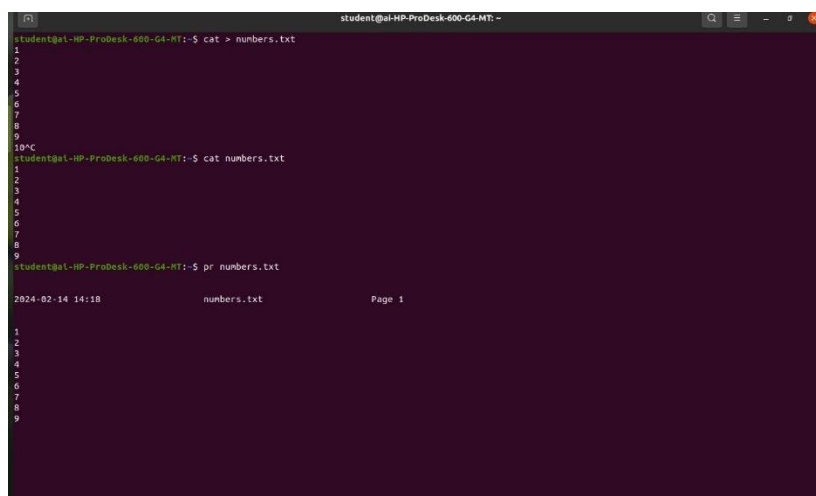# UNIX-LAB

WEEK-03

NAME:G.JOSHUA STEPHEN

SECTION:A

ROLLNO:422148

QUESTION:WRITE SHELL SCRIPT FOR SEARCHING FOR VARIOUS PATTERNS USING GREP,PR,HEAD,TAIL,CUT,PASTE SORT,UNIQ AND TR

PR COMMAND:

OUTPUT:

```
GNU coreutils online help: <https://www.gnu.org/software/coreutils/>
Full documentation at: <https://www.gnu.org/software/coreutils/pr>
or available locally via: info '(coreutils) pr invocation'
student@al-HP-ProDesk-600-G4-MT:~$ pr -t numbers.txt
1
2
3
4
5
6
7
8
9
student@al-HP-ProDesk-600-G4-MT:~$ pr -d numbers.txt


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1

2

3

4

5

6

7

8

9
```

```
student@al-HP-ProDesk-600-G4-MT:~$ pr -3 numbers.txt


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1                    4                    7
2                    5                    8
3                    6                    9
```

HEAD:

OUTPUT:

```
student@al-HP-ProDesk-600-G4-MT:~$ cat > list.txt
virginia
connecticut
delaware
georgia
maryland
massachusetts
new hampshire
new york
north carolina
pennsylvania
rhode island
south carolina
^C
student@al-HP-ProDesk-600-G4-MT:~$ cat list.txt
virginia
connecticut
delaware
georgia
maryland
massachusetts
new hampshire
new york
north carolina
pennsylvania
rhode island
south carolina
student@al-HP-ProDesk-600-G4-MT:~$ head list.txt
virginia
connecticut
delaware
georgia
maryland
massachusetts
new hampshire
new york
north carolina
pennsylvania
```

```
Full documentation at: <https://www.gnu.org/software/coreutils/head>
or available locally via: info '(coreutils) head invocation'
student@al-HP-ProDesk-600-G4-MT:~$ head -n 3 list.txt
virginia
connecticut
delaware
student@al-HP-ProDesk-600-G4-MT:~$ haed -c 10 list.txt

Command 'haed' not found, did you mean:

  command 'hadd' from snap root-framework (v6-30-04)
  command 'head' from deb coreutils (8.30-3ubuntu2)

See 'snap info <snapname>' for additional versions.

student@al-HP-ProDesk-600-G4-MT:~$ head -c 10 list.txt
virginia
cstudent@al-HP-ProDesk-600-G4-MT:~$ head -v list.txt
==> list.txt <==
virginia
connecticut
delaware
georgia
maryland
massachusetts
new hampshire
new york
north carolina
pennsylvania
```

```
student@ai-HP-ProDesk-600-G4-MT:~$ head list.txt numbers.txt
==> list.txt <==
virginia
connecticut
delaware
georgia
maryland
massachusetts
new hampshire
new york
north carolina
pennsylvania

==> numbers.txt <==
1
2
3
4
5
6
7
8
9
student@ai-HP-ProDesk-600-G4-MT:~$
```

```
student@ai-HP-ProDesk-600-G4-MT:~$ head numbers.txt > out_numbers.txt
student@ai-HP-ProDesk-600-G4-MT:~$ cat out_numbers.txt
1
2
3
4
5
6
7
8
9
student@ai-HP-ProDesk-600-G4-MT:~$ tail  -5 out_numbers.txt
5
6
7
8
9
```

TAIL:

OUTPUT:

```
student@ai-HP-ProDesk-600-G4-MT:~$ tail list.txt
delaware
georgia
maryland
massachusetts
new hampshire
new york
north carolina
pennsylvania
rhode island
south carolina
student@ai-HP-ProDesk-600-G4-MT:~$ tail -c 20 list.txt
land
south carolina
student@ai-HP-ProDesk-600-G4-MT:~$ tail -v list.txt
==> list.txt <==
delaware
georgia
maryland
massachusetts
new hampshire
new york
north carolina
pennsylvania
rhode island
south carolina
```

```
student@ai-HP-ProDesk-600-G4-MT:~$ tail  -5 out_numbers.txt
5
6
7
8
9
```

PASTE:

OUTPUT:

```
nnsylv
ode is
uth ca
student@ai-HP-ProDesk-600-G4-MT:~$ paste list.txt numbers.txt
virginia        1
connecticut     2
delaware        3
georgia 4
maryland        5
massachusetts   6
new hampshire   7
new york        8
north carolina  9
pennsylvania
rhode island
south carolina
student@ai-HP-ProDesk-600-G4-MT:~$ paste -d "|," list.txt numbers.txt
virginia|1
connecticut|2
delaware|3
georgia|4
maryland|5
massachusetts|6
new hampshire|7
new york|8
north carolina|9
pennsylvania|
rhode island|
south carolina|
student@ai-HP-ProDesk-600-G4-MT:~$ paste -s -d ":" list.txt numbers.txt
virginia:connecticut:delaware:georgia:maryland:massachusetts:new hampshire:new york:north carolina:pennsylvania:rhode island:south carolina
1:2:3:4:5:6:7:8:9
```

CUT:

OUTPUT:

```
student@ai-HP-ProDesk-600-G4-MT:~$ cut -b 3 list.txt
r
n
l
o
r
s
w
w
r
n
o
u
student@ai-HP-ProDesk-600-G4-MT:~$ cut -b -6 list.txt
virgin
connec
delawa
georgi
maryla
massac
new ha
new yo
north
pennsy
rhode
south
student@ai-HP-ProDesk-600-G4-MT:~$ cut -c 3-8 list.txt
rginia
nnecti
laware
orgia
ryland
ssachu
w hamp
w york
rth ca
nnsylv
ode is
uth ca
```

TR :

OUTPUT:

```
student@ai-HP-ProDesk-600-G4-MT:~$ cat list.txt | tr [a-z] [A-Z]
VIRGINIA
CONNECTICUT
DELAWARE
GEORGIA
MARYLAND
MASSACHUSETTS
NEW HAMPSHIRE
NEW YORK
NORTH CAROLINA
PENNSYLVANIA
RHODE ISLAND
SOUTH CAROLINA
```

```
student@ai-HP-ProDesk-600-G4-MT:~$ echo my id is 422148| tr -d [:digit:]
my id is
student@ai-HP-ProDesk-600-G4-MT:~$ echo welcome to nitap| tr -d welcome to
tr: extra operand 'to'
Only one string may be given when deleting without squeezing repeats.
Try 'tr --help' for more information.
student@ai-HP-ProDesk-600-G4-MT:~$ echo welcome to nitap| tr -d welcome
 t nitap
student@ai-HP-ProDesk-600-G4-MT:~$ echo welcome to nitap| tr -d we
lcom to nitap
```

SORT:

OUTPUT:

```
student@ai-HP-ProDesk-600-G4-MT:~$ sort list.txt
connecticut
delaware
georgia
maryland
massachusetts
new hampshire
new york
north carolina
pennsylvania
rhode island
south carolina
virginia
```

```
student@ai-HP-ProDesk-600-G4-MT:~$ sort -r list.txt
virginia
south carolina
rhode island
pennsylvania
north carolina
new york
new hampshire
massachusetts
maryland
georgia
delaware
connecticut
```

```
student@ai-HP-ProDesk-600-G4-MT:~$ sort list1.txt
connecticut
connecticut
delaware
georgia
massachusetts
new york
north
north
pennsylvania
south carolina
virginia
```

```
student@ai-HP-ProDesk-600-G4-MT:~$ sort -u list1.txt
connecticut
delaware
georgia
massachusetts
new york
north
pennsylvania
south carolina
virginia
```

UNIQUE:

OUTPUT:

```
student@ai-HP-ProDesk-600-G4-MT:~$ cat > list1.txt
virginia
connecticut
connecticut
delaware
georgia
massachusetts
new york
north carolina
north carolina
pennsylvania
south carolina
^C
student@ai-HP-ProDesk-600-G4-MT:~$ cat list1.txt
virginia
connecticut
connecticut
delaware
georgia
massachusetts
new york
north carolina
north carolina
pennsylvania
south carolina
student@ai-HP-ProDesk-600-G4-MT:~$ uniq list1.txt
virginia
connecticut
delaware
georgia
massachusetts
new york
north carolina
```



```
pennsylvania
south carolina
student@ai-HP-ProDesk-600-G4-MT:~$ nano list1.txt
student@ai-HP-ProDesk-600-G4-MT:~$ uniq list1.txt
virginia
connecticut
delaware
georgia
massachusetts
new york
north
pennsylvania
south carolina
student@ai-HP-ProDesk-600-G4-MT:~$ uniq -u list1.txt
virginia
delaware
georgia
massachusetts
new york
pennsylvania
south carolina
```



```
virginia
student@ai-HP-ProDesk-600-G4-MT:~$ uniq -c list1.txt
      1 virginia
      2 connecticut
      1 delaware
      1 georgia
      1 massachusetts
      1 new york
      2 north
      1 pennsylvania
      1 south carolina
student@ai-HP-ProDesk-600-G4-MT:~$ uniq -d list1.txt
connecticut
north
```

GREP:

OUTPUT:


```
student@ai-HP-ProDesk-600-G4-MT:~$ grep -i "connect" list1.txt
connecticut
connecticut
student@ai-HP-ProDesk-600-G4-MT:~$ grep -c "connect" list1.txt
2
student@ai-HP-ProDesk-600-G4-MT:~$ grep -w "connect" list1.txt
student@ai-HP-ProDesk-600-G4-MT:~$ grep -0 "connect" list1.txt
connecticut
connecticut
student@ai-HP-ProDesk-600-G4-MT:~$ grep -n "connect" list1.txt
2:connecticut
3:connecticut
student@ai-HP-ProDesk-600-G4-MT:~$ grep -0 "conn" list1.txt
connecticut
connecticut
student@ai-HP-ProDesk-600-G4-MT:~$ grep -o "conn" list1.txt
conn
conn
```