

UNIX-LAB

WEEK-03

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

PR COMMAND:

OUTPUT:

```
student@ai-HP-ProDesk-600-G4-MT: ~  
1  
2  
3  
4  
5  
6  
7  
8  
9  
10°C  
student@ai-HP-ProDesk-600-G4-MT:~$ cat > numbers.txt  
1  
2  
3  
4  
5  
6  
7  
8  
9  
student@ai-HP-ProDesk-600-G4-MT:~$ cat numbers.txt  
1  
2  
3  
4  
5  
6  
7  
8  
9  
student@ai-HP-ProDesk-600-G4-MT:~$ pr numbers.txt  
2024-02-14 14:18      numbers.txt      Page 1  
1  
2  
3  
4  
5  
6  
7  
8  
9
```

```
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) or 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

2024-02-14 14:18          numbers.txt          Page 1

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

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

2024-02-14 14:18          numbers.txt          Page 1

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
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
```

```
9
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@a1-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@a1-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@a1-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@a1-HP-ProDesk-600-G4-MT:~$ cut -b 3 list.txt
r
n
l
o
r
s
w
r
n
o
u
student@a1-HP-ProDesk-600-G4-MT:~$ cut -b -6 list.txt
virgin
connec
delawa
georgi
maria
massac
new ha
new yo
north
pennsy
rhode
south
student@a1-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@a1-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@a1-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@a1-HP-ProDesk-600-G4-MT:~$ cat list1.txt
virginia
connecticut
connecticut
delaware
georgia
massachusetts
new york
north carolina
north carolina
pennsylvania
south carolina
student@a1-HP-ProDesk-600-G4-MT:~$ uniq list1.txt
virginia
connecticut
delaware
georgia
massachusetts
new york
north carolina

```

```

pennsylvania
south carolina
student@a1-HP-ProDesk-600-G4-MT:~$ nano list1.txt
student@a1-HP-ProDesk-600-G4-MT:~$ uniq list1.txt
virginia
connecticut
delaware
georgia
massachusetts
new york
north
pennsylvania
south carolina
student@a1-HP-ProDesk-600-G4-MT:~$ uniq -u list1.txt
virginia
delaware
georgia
massachusetts
new york
pennsylvania
south carolina

```

```

virginia
student@a1-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@a1-HP-ProDesk-600-G4-MT:~$ uniq -d list1.txt
connecticut
north

```

GREP:

OUTPUT:

```

student@a1-HP-ProDesk-600-G4-MT:~$ grep -i "connect" list1.txt
connecticut
connecticut
student@a1-HP-ProDesk-600-G4-MT:~$ grep -c "connect" list1.txt
2
student@a1-HP-ProDesk-600-G4-MT:~$ grep -w "connect" list1.txt
student@a1-HP-ProDesk-600-G4-MT:~$ grep -o "connect" list1.txt
connecticut
connecticut
student@a1-HP-ProDesk-600-G4-MT:~$ grep -n "connect" list1.txt
2:connecticut
3:connecticut
student@a1-HP-ProDesk-600-G4-MT:~$ grep -o "conn" list1.txt
connecticut
connecticut
student@a1-HP-ProDesk-600-G4-MT:~$ grep -o "conn" list1.txt
conn
conn

```