

ROLL NO: 422120

NAME: B.Sumanth

SEC: 'A'

ASSIGNMENT-01

Write all shell script for searching for various patterns using

1. Grep

```
student@ai-HP-ProDesk-600-G4-MT:~$ cat grep.txt
This is the first paragraph bla bla bla
This is another line in the same paragraph bla bla
This is a third line bla bla

This is the second paragraph bla bla bla
Second line bla bla My keyword is here!
bla bla bla
bla

Hey, third paragraph bla bla bla!
bla bla

keyword keyword
keyword
Another line! bla
student@ai-HP-ProDesk-600-G4-MT:~$ grep -i "bla" grep.txt
This is the first paragraph bla bla bla
This is another line in the same paragraph bla bla
This is a third line bla bla
This is the second paragraph bla bla bla
Second line bla bla My keyword is here!
bla bla bla
bla
Hey, third paragraph bla bla bla!
bla bla
Another line! bla
student@ai-HP-ProDesk-600-G4-MT:~$ grep -c "bla" grep.txt
10
student@ai-HP-ProDesk-600-G4-MT:~$ grep -l "bla" *
grep: 422120: Is a directory
grep: 422139: Is a directory
grep: 622176: Is a directory
grep: 622204: Is a directory
grep.txt
grep: Lab: Is a directory
grep: snap: Is a directory
student@ai-HP-ProDesk-600-G4-MT:~$ grep -o "bla" grep.txt
bla
bla
bla
bla
bla
bla
bla
bla
bla
bla
bla
```

2. Pr

```
student@ai-HP-ProDesk-600-G4-MT:~$ cat num.txt
1
2
3
4
5
6
7
8
9
10
student@ai-HP-ProDesk-600-G4-MT:~$ pr -2 num.txt
2024-02-14 15:00      num.txt      Page 1
1          6
2          7
3          8
4          9
5         10
```

```
student@al-HP-ProDesk-600-G4-MT:~$ pr -d num.txt
2024-02-14 15:00          num.txt          Page 1
1
2
3
4
5
6
7
8
9
10
```

3. Head

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

==> num.txt <==
1
2
3
4
5
6
7
```

```
Activities Terminal Feb 14 3:19 PM student@al-HP-ProDesk-600-G4-MT: ~
==> cities.txt <==
virginia
connecticut
delaware
georgia
maryland
massachusetts
new hampshire
new jersey
new york
noth carolina

==> num.txt <==
1
2
3
4
5
6
7
8
9
10

student@al-HP-ProDesk-600-G4-MT:~$ head -q cities.txt num.txt
virginia
connecticut
delaware
georgia
maryland
massachusetts
new hampshire
new jersey
new york
noth carolina
1
2
3
4
5
6
7
8
9
10
student@al-HP-ProDesk-600-G4-MT:~$
```

4. Tail

```
Activities Terminal Feb 14 3:35 PM student@al-HP-ProDesk-600-G4-MT: ~
student@al-HP-ProDesk-600-G4-MT:~$ tail cities.txt
georgia
maryland
massachusetts
new hampshire
new jersey
new york
noth carolina
pennsylvania
rhode island
south caroliana
student@al-HP-ProDesk-600-G4-MT:~$ tail -7 cities.txt
new hampshire
new jersey
new york
noth carolina
pennsylvania
rhode island
south caroliana
student@al-HP-ProDesk-600-G4-MT:~$ tail +7 cities.txt
new hampshire
new jersey
new york
noth carolina
pennsylvania
rhode island
south caroliana
student@al-HP-ProDesk-600-G4-MT:~$ tail -c -7 cities.txt
oliana
student@al-HP-ProDesk-600-G4-MT:~$
```

5. Cut

```
Activities Terminal Feb 14 3:42 PM student@al-HP-ProDesk-600-G4-MT: ~
student@al-HP-ProDesk-600-G4-MT:~$ cut -b 1,2,3 cities.txt
vtr
con
del
geo
mar
mas
new
new
not
pen
rho
sou
student@al-HP-ProDesk-600-G4-MT:~$ cut -b 1,3,5-8 cities.txt
virinia
conecti
delware
geogla
marland
masachu
newhamp
newjers
newyork
not car
pensylv
rhoe is
souh ca
student@al-HP-ProDesk-600-G4-MT:~$ cut -c 2,5,7 cities.txt
iii
oet
ewr
ega
aln
ash
ehm
ejr
eyr
o a
esl
hei
ohc
student@al-HP-ProDesk-600-G4-MT:~$
```

6. Paste

```
Activities Terminal Feb 14 3:51 PM student@al-HP-ProDesk-600-G4-MT: ~
student@al-HP-ProDesk-600-G4-MT:~$ paste cities.txt
virinia
connecticut
delaware
georgia
maryland
massachusetts
new hampshire
new jersey
new york
north carolina
pennsylvania
rhode island
south carolina
student@al-HP-ProDesk-600-G4-MT:~$ paste -d "|" num.txt cities.txt
1|virinia
2|connecticut
3|delaware
4|georgia
5|maryland
6|massachusetts
7|new hampshire
8|new jersey
9|new york
10|noth carollna
|pennsylvania
|rhode island
|south caroliana
student@al-HP-ProDesk-600-G4-MT:~$ paste -s num.txt cities.txt
1 2 3 4 5 6 7 8 9 10
virinia connecticut delaware georgia maryland massachusetts new hampshire new jersey new york noth carolina p
ennsylvania rhode island south caroliana
student@al-HP-ProDesk-600-G4-MT:~$
```

7. Sort

```
Activities Terminal Feb 14 3:59 PM student@ai-HP-ProDesk-600-G4-MT: ~
student@ai-HP-ProDesk-600-G4-MT:~$ cat cities.txt
virginia
connecticut
delaware
georgia
maryland
massachusetts
new hampshire
new jersey
new york
north carolina
pennsylvania
rhode island
south carolina
student@ai-HP-ProDesk-600-G4-MT:~$ sort cities.txt
connecticut
delaware
georgia
maryland
massachusetts
new hampshire
new jersey
new york
north carolina
pennsylvania
rhode island
south carolina
virginia
student@ai-HP-ProDesk-600-G4-MT:~$ sort -r cities.txt
virginia
south carolina
rhode island
pennsylvania
north carolina
new york
new jersey
new hampshire
massachusetts
maryland
georgia
delaware
connecticut
student@ai-HP-ProDesk-600-G4-MT:~$
```

8. Uniq

```
student@ai-HP-ProDesk-600-G4-MT:~$ cat cities.txt
virginia
connecticut
delaware
delaware
georgia
maryland
maryland
maryland
massachusetts
new hampshire
new jersey
new york
new york

student@ai-HP-ProDesk-600-G4-MT:~$ uniq cities.txt
virginia
connecticut
delaware
georgia
maryland
massachusetts
new hampshire
new jersey
new york

student@ai-HP-ProDesk-600-G4-MT:~$ uniq -c cities.txt
1 virginia
1 connecticut
2 delaware
1 georgia
3 maryland
1 massachusetts
1 new hampshire
1 new jersey
2 new york
1

student@ai-HP-ProDesk-600-G4-MT:~$ uniq -d cities.txt
delaware
maryland
new york
student@ai-HP-ProDesk-600-G4-MT:~$ uniq -u cities.txt
virginia
connecticut
georgia
massachusetts
new hampshire
new jersey
student@ai-HP-ProDesk-600-G4-MT:~$
```

9. Tr

```
Activities Terminal Feb 14 4:09 PM student@al-HP-ProDesk-600-G4-MT: ~
student@al-HP-ProDesk-600-G4-MT:~$ cat cities.txt
virginia
connecticut
delaware
georgia
maryland
massachusetts
new hampshire
new jersey
new york
noth carolina
pennsylvania
rhode island
south caroliana
student@al-HP-ProDesk-600-G4-MT:~$ cat cities.txt | tr [a-z] [A-Z]
VIRGINIA
CONNECTICUT
DELAWARE
GEORGIA
MARYLAND
MASSACHUSETTS
NEW HAMPSHIRE
NEW JERSEY
NEW YORK
NOTH CAROLINA
PENNSYLVANIA
RHODE ISLAND
SOUTH CAROLIANA
student@al-HP-ProDesk-600-G4-MT:~$ echo "My name is xyz" | tr -d M
y name is xyz
student@al-HP-ProDesk-600-G4-MT:~$ echo "My ID is 5678" | tr -d [:digit:]
My ID is
student@al-HP-ProDesk-600-G4-MT:~$
```