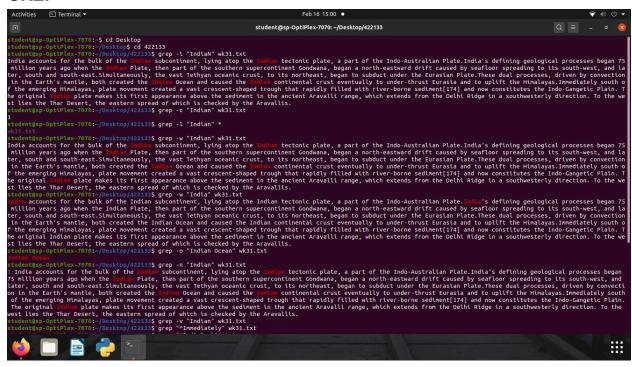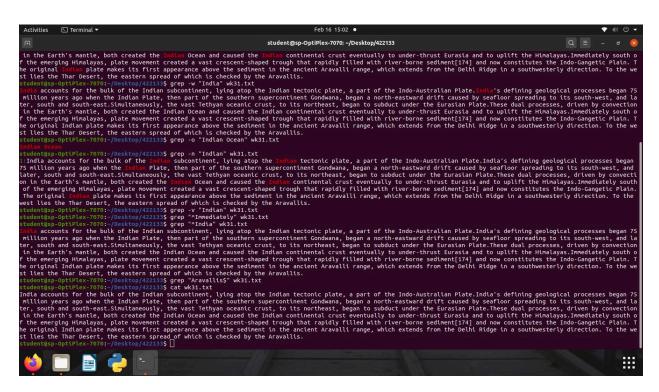# ASSIGNMENT - 1

Write shell script for searching for various patterns using grep, pr, head, tail, cut, paste, sort, uniq, and tr.

GREP

PR

```
student@sp-OptiPlex-7070:~$ cd Desktop
student@sp-OptiPlex-7070:~/Desktop$ cd 422133
student@sp-OptiPlex-7070:~/Desktop/422133$ pr -t wk32.txt
1
2
3
4
5
6
7
8
9
10
student@sp-OptiPlex-7070:~/Desktop/422133$ pr -d wk32.txt


2024-02-16 15:08                wk32.txt                    Page 1


1

2

3

4

5

6

7

8

9

10
```

```
student@sp-OptiPlex-7070:~$ cd Desktop
student@sp-OptiPlex-7070:~/Desktop$ cd 422133
student@sp-OptiPlex-7070:~/Desktop/422133$ cat wk32.txt
1
2
3
4
5
6
7
8
9
10
student@sp-OptiPlex-7070:~/Desktop/422133$ pr -4 wk32.txt


2024-02-16 15:08                wk32.txt                    Page 1


1               4               7               9
2               5               8               10
3               6
```

```
student@sp-OptiPlex-7070:~$ cd Desktop
student@sp-OptiPlex-7070:~/Desktop$ cd 422133
student@sp-OptiPlex-7070:~/Desktop/422133$ pr -n wk32.txt


2024-02-16 15:08                wk32.txt                    Page 1


    1    1
    2    2
    3    3
    4    4
    5    5
    6    6
    7    7
    8    8
    9    9
   10    10
```

HEAD

```
student@sp-OptiPlex-7070:~$ cd Desktop
student@sp-OptiPlex-7070:~/Desktop$ cd 422133
student@sp-OptiPlex-7070:~/Desktop/422133$ head -n 5 wk33.txt
Andhra Pradesh
Arunachal Pradesh
Assam
Bihar
Chattisgarh
student@sp-OptiPlex-7070:~/Desktop/422133$ head -c 6 wk33.txt
Andhrastudent@sp-OptiPlex-7070:~/Desktop/422133$ head wk33.txt wk34.txt
==> wk33.txt <==
Andhra Pradesh
Arunachal Pradesh
Assam
Bihar
Chattisgarh
Goa
Gujarat
Haryana
Himachal Pradesh
Jammu

==> wk34.txt <==
Amaravathi
Itanagar
Dispur
Patna
Raiput
Panaji
Gandhinagar
Chandigarh
Shimla
Srinagar
```

```
student@sp-OptiPlex-7070:~/Desktop/422133$ head -q wk33.txt wk34.txt
Andhra Pradesh
Arunachal Pradesh
Assam
Bihar
Chattisgarh
Goa
Gujarat
Haryana
Himachal Pradesh
Jammu
Amaravathi
Itanagar
Dispur
Patna
Raiput
Panaji
Gandhinagar
Chandigarh
Shimla
Srinagar
student@sp-OptiPlex-7070:~/Desktop/422133$ head -v wk33.txt
==> wk33.txt <==
Andhra Pradesh
Arunachal Pradesh
Assam
Bihar
Chattisgarh
Goa
Gujarat
Haryana
Himachal Pradesh
Jammu
student@sp-OptiPlex-7070:~/Desktop/422133$
```

```
student@sp-OptiPlex-7070:~/Desktop/422133$ head -n 20 wk33.txt | tail -10
Jharkhand
Karnataka
Kerala
Madhya Pradesh
Manipur
Meghalaya
Mizoram
Nagaland
Odisha
Punjab
student@sp-OptiPlex-7070:~/Desktop/422133$
```

```
student@sp-OptiPlex-7070:~/Desktop/422133$ head -n 20 wk33.txt | tail -10
Jharkhand
Karnataka
Kerala
Madhya Pradesh
Manipur
Meghalaya
Mizoram
Nagaland
Odisha
Punjab
```

TAIL

```
student@sp-OptiPlex-7070:~/Desktop/422133$ tail wk34.txt
Itanagar
Dispur
Patna
Raiput
Panaji
Gandhinagar
Chandigarh
Shimla
Srinagar

student@sp-OptiPlex-7070:~/Desktop/422133$ tail -n 3 wk33.txt
Uttar Pradesh
Uttarakhand
West Bengal
student@sp-OptiPlex-7070:~/Desktop/422133$ tail +25 wk33.txt
Tripura
Uttar Pradesh
Uttarakhand
West Bengal
student@sp-OptiPlex-7070:~/Desktop/422133$ tail -c 7 wk33.txt
Bengal
student@sp-OptiPlex-7070:~/Desktop/422133$ tail -c +263 wk33.txt

West Bengal
student@sp-OptiPlex-7070:~/Desktop/422133$ tail wk33.txt wk34.txt
==> wk33.txt <==
Odisha
Punjab
Rajasthan
Sikkim
```

```
student@sp-OptiPlex-7070:~/Desktop/422133$ tail wk33.txt wk34.txt
==> wk33.txt <==
Odisha
Punjab
Rajasthan
Sikkim
Tamil Nadu
Telangana
Tripura
Uttar Pradesh
Uttarakhand
West Bengal

==> wk34.txt <==
Itanagar
Dispur
Patna
Raiput
Panaji
Gandhinagar
Chandigarh
Shimla
Srinagar
```

```
student@sp-OptiPlex-7070:~/Desktop/422133$ tail wk33.txt -q wk34.txt
Odisha
Punjab
Rajasthan
Sikkim
Tamil Nadu
Telangana
Tripura
Uttar Pradesh
Uttarakhand
West Bengal
Itanagar
Dispur
Patna
Raiput
Panaji
Gandhinagar
```

```
student@sp-OptiPlex-7070:~/Desktop/422133$ tail -v wk33.txt
==> wk33.txt <==
Odisha
Punjab
Rajasthan
Sikkim
Tamil Nadu
Telangana
Tripura
Uttar Pradesh
Uttarakhand
West Bengal
```

CUT

```
student@sp-OptiPlex-7070:~/Desktop/422133$ cut -b 1-3,5-7 wk33.txt
Andra
Aruach
Assm
Bihr
Chatis
Goa
Gujrat
Harana
Himcha
Jamu
Jhakha
Karata
Kerla
Madya
Manpur
Megala
Mizram
Naglan
Odiha
Punab
Rajsth
Sikim
Taml N
Telnga
Triura
Uttr P
Uttrak
Wes Be
```

```
student@sp-OptiPlex-7070:~/Desktop/422133$ cut -c 2,5,7 wk33.txt
nr
rah
sm
ir
hts
o
urt
aaa
ica
au
hka
aaa
el
ay
apr
eaa
irm
aln
dh
ua
ash
ii
alN
ena
rua
trP
trk
e e
student@sp-OptiPlex-7070:~/Desktop/422133$
```

```
student@sp-OptiPlex-7070:~/Desktop/422133$ cut -c 1- wk33.txt
Andhra Pradesh
Arunachal Pradesh
Assam
Bihar
Chattisgarh
Goa
Gujarat
Haryana
Himachal Pradesh
Jammu
Jharkhand
Karnataka
Kerala
Madhya Pradesh
Manipur
Meghalaya
Mizoram
Nagaland
Odisha
Punjab
Rajasthan
Sikkim
Tamil Nadu
Telangana
Tripura
Uttar Pradesh
Uttarakhand
West Bengal
student@sp-OptiPlex-7070:~/Desktop/422133$
```

```
student@sp-OptiPlex-7070:~/Desktop/422133$ cut -f 1 wk33.txt
Andhra Pradesh
Arunachal Pradesh
Assam
Bihar
Chattisgarh
Goa
Gujarat
Haryana
Himachal Pradesh
Jammu
Jharkhand
Karnataka
Kerala
Madhya Pradesh
Manipur
Meghalaya
Mizoram
Nagaland
Odisha
Punjab
Rajasthan
Sikkim
Tamil Nadu
Telangana
Tripura
Uttar Pradesh
Uttarakhand
West Bengal
student@sp-OptiPlex-7070:~/Desktop/422133$
```

```
student@sp-OptiPlex-7070:~/Desktop/422133$ cut --complement -d " " -f 1 wk33.txt
Pradesh
Pradesh
Assam
Bihar
Chattisgarh
Goa
Gujarat
Haryana
Pradesh
Jammu
Jharkhand
Karnataka
Kerala
Pradesh
Manipur
Meghalaya
Mizoram
Nagaland
Odisha
Punjab
Rajasthan
Sikkim
Nadu
Telangana
Tripura
Pradesh
Uttarakhand
Bengal
```

PASTE

```
student@sp-OptiPlex-7070:~/Desktop/422133$ paste wk33.txt wk34.txt
Andhra Pradesh   Amaravathi
Arunachal Pradesh        Itanagar
Assam    Dispur
Bihar    Patna
Chattisgarh      Raiput
Goa      Panaji
student@sp-OptiPlex-7070:~/Desktop/422133$ paste -d "|" wk33.txt wk34.txt
Andhra Pradesh|Amaravathi
Arunachal Pradesh|Itanagar
Assam|Dispur
Bihar|Patna
Chattisgarh|Raiput
Goa|Panaji
student@sp-OptiPlex-7070:~/Desktop/422133$ paste -s -d ":" wk33.txt wk34.txt
Andhra Pradesh:Arunachal Pradesh:Assam:Bihar:Chattisgarh:Goa
Amaravathi:Itanagar:Dispur:Patna:Raiput:Panaji
```

SORT

```
student@sp-OptiPlex-7070:~/Desktop/422133$ sort -t wk33.txt
sort: multi-character tab 'wk33.txt'
student@sp-OptiPlex-7070:~/Desktop/422133$ sort -t wk34.txt
sort: multi-character tab 'wk34.txt'
```

UNIQ

```
student@sp-OptiPlex-7070:~/Desktop/422133$ uniq wk33.txt
Andhra Pradesh
Arunachal Pradesh
Assam
Bihar
Chattisgarh
Goa
student@sp-OptiPlex-7070:~/Desktop/422133$ uniq -c wk33.txt
      1 Andhra Pradesh
      1 Arunachal Pradesh
      1 Assam
      1 Bihar
      1 Chattisgarh
      1 Goa
student@sp-OptiPlex-7070:~/Desktop/422133$ uniq -d wk33.txt
student@sp-OptiPlex-7070:~/Desktop/422133$ uniq -u list2.txt
uniq: list2.txt: No such file or directory
student@sp-OptiPlex-7070:~/Desktop/422133$ uniq -u wk33.txt
Andhra Pradesh
Arunachal Pradesh
Assam
Bihar
Chattisgarh
Goa
```

TR

```
student@sp-OptiPlex-7070:~/Desktop/422133$ cat wk33.txt | tr [a-z] [A-Z]
ANDHRA PRADESH
ARUNACHAL PRADESH
ASSAM
BIHAR
CHATTISGARH
GOA
student@sp-OptiPlex-7070:~/Desktop/422133$ echo "Welcome" | tr -d W
elcome
student@sp-OptiPlex-7070:~/Desktop/422133$ echo "my ID is 422133" | tr -d [:digit:]
my ID is
student@sp-OptiPlex-7070:~/Desktop/422133$ 
```

NAME   : CH V CHARAN
SECTION : A
ROLL NO : 422133