

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

```
Activities Terminal Feb 14 4:43 PM student@al-hp-prodesk-72: ~/Desktop/Unix_Lab
Manipur
Meghalaya
Mizoram
Nagaland
Odisha
Punjab
Rajasthan
Sikkim
Tamil Nadu
Telangana
Tripura
Uttar Pradesh
Uttarakhand
West Bengal
student@al-hp-prodesk-72:~/Desktop/Unix_Lab$ cut --complement -c 5 state.txt
Andha Pradesh
Arunchal Pradesh
Assa
Btha
Chhatisgarh
Goa
Gujarat
Haryana
Himachal Pradesh
Jammu and Kashmir
Jharkhand
Karnataka
Kerala
Madhya Pradesh
Maharashtra
Manipur
Meghalaya
Mizoram
Nagaland
Odisha
Punjab
Rajasthan
Sikkim
Tamil Nadu
Telangana
Tripura
Uttar Pradesh
Uttarakhand
WestBengal
student@al-hp-prodesk-72:~/Desktop/Unix_Lab$
```

```
Activities Terminal Feb 14 4:43 PM student@al-hp-prodesk-72: ~/Desktop/Unix_Lab

Manipur
Meghalaya
Mizoram
Nagaland
Odisha
Punjab
Rajasthan
Sikkim
Tamil Nadu
Telangana
Tripura
Uttar Pradesh
Uttarakhand
West Bengal
student@al-hp-prodesk-72:~/Desktop/Unix_Lab$ cut --complement -c 5 state.txt
Andhra Pradesh
Arunachal Pradesh
Assam
Bihar
Chhattisgarh
Goa
Gujarat
Haryana
Himachal Pradesh
Jammu and Kashmir
Jharkhand
Karnataka
Kerala
Madhya Pradesh
Maharashtra
Manipur
Meghalaya
Mizoram
Nagaland
Odisha
Punjab
Rajasthan
Sikkim
Tamil Nadu
Telangana
Tripura
Uttar Pradesh
Uttarakhand
West Bengal
student@al-hp-prodesk-72:~/Desktop/Unix_Lab$
```

```
Activities Terminal Feb 14 4:43 PM student@al-hp-prodesk-72: ~/Desktop/Unix_Lab

apr
eaa
irm
aln
dh
ua
ash
ii
aln
ena
rua
trP
trk
e e
student@al-hp-prodesk-72:~/Desktop/Unix_Lab$ cut -f 1 state.txt
Andhra Pradesh
Arunachal Pradesh
Assam
Bihar
Chhattisgarh
Goa
Gujarat
Haryana
Himachal Pradesh
Jammu and Kashmir
Jharkhand
Karnataka
Kerala
Madhya Pradesh
Maharashtra
Manipur
Meghalaya
Mizoram
Nagaland
Odisha
Punjab
Rajasthan
Sikkim
Tamil Nadu
Telangana
Tripura
Uttar Pradesh
Uttarakhand
West Bengal
student@al-hp-prodesk-72:~/Desktop/Unix_Lab$
```

```
Activities Terminal Feb 14 4:43 PM student@al-hp-prodesk-72: ~/Desktop/Unix_Lab
apr
eaa
lrm
aLn
dh
ua
ash
ti
aLN
ena
rua
trP
trk
e e
student@al-hp-prodesk-72:~/Desktop/Unix_Lab$ cut -f 1 state.txt
Andhra Pradesh
Arunachal Pradesh
Assam
Bihar
Chhattisgarh
Goa
Gujarat
Haryana
Himachal Pradesh
Jammu and Kashmir
Jharkhand
Karnataka
Kerala
Madhya Pradesh
Maharashtra
Manipur
Meghalaya
Mizoram
Nagaland
Odisha
Punjab
Rajasthan
Sikkim
Tamil Nadu
Telangana
Tripura
Uttar Pradesh
Uttarakhand
West Bengal
student@al-hp-prodesk-72:~/Desktop/Unix_Lab$
```

```
Activities Terminal Feb 14 4:43 PM student@al-hp-prodesk-72: ~/Desktop/Unix_Lab
Man
Meg
Miz
Nag
Nag
Odi
Pun
Raj
Sik
Tam
Tel
Tri
Utt
Utt
Wes
student@al-hp-prodesk-72:~/Desktop/Unix_Lab$ cut -c 2,5,7 state.txt
nr
rah
sn
lr
hti
o
urt
aaa
ica
aqa
hka
aaa
el
ay
ars
apr
eaa
lrm
aLn
dh
ua
ash
ti
aLN
ena
rua
trP
trk
e e
student@al-hp-prodesk-72:~/Desktop/Unix_Lab$
```

```
Activities Terminal Feb 14 4:43 PM student@al-hp-prodesk-72: ~/Desktop/Unix_Lab
Man
Meg
Mtlz
Nag
Odi
Pun
Raj
Sik
Tam
Tel
Tri
Utt
Utt
Wes
student@al-hp-prodesk-72:~/Desktop/Unix_Lab$ cut -c 2,5,7 state.txt
nr
rah
sm
lr
hti
o
urt
aaa
ica
aua
hka
aaa
el
ay
ars
apr
eaa
irm
aln
dh
ua
ash
tl
aLN
ena
rua
trP
trk
e e
student@al-hp-prodesk-72:~/Desktop/Unix_Lab$
```

```
Activities Terminal Feb 14 4:42 PM student@al-hp-prodesk-72: ~/Desktop/Unix_Lab
And
Aru
Ass
Bih
Chh
Goa
Guj
Har
Hlm
Jam
Jha
Kar
Ker
Mad
Mah
Man
Meg
Mtlz
Nag
Odi
Pun
Raj
Sik
Tam
Tel
Tri
Utt
Utt
Wes
student@al-hp-prodesk-72:~/Desktop/Unix_Lab$ cut -b 1,2,3 state.txt
And
Aru
Ass
Bih
Chh
Goa
Guj
Har
Hlm
Jam
Jha
Kar
Ker
Mad
Mah
Man
Meg
Mtlz
Nag
Odi
Pun
Raj
Sik
Tam
Tel
Tri
Utt
Utt
Wes
student@al-hp-prodesk-72:~/Desktop/Unix_Lab$
```

```
Activities Terminal Feb 14 4:42 PM student@al-hp-prodesk-72: ~/Desktop/Unix_Lab
student@al-hp-prodesk-72:~/Desktop/Unix_Lab$ cut -b 1,2,3 state.txt
And
Aru
Ass
Bth
Chh
Goo
Guj
Har
Him
Jam
Jha
Kar
Ker
Mad
Mah
Man
Meg
Miz
Nag
Odi
Pun
Raj
Sik
Tam
Tel
Tri
Utt
Utt
Wes
student@al-hp-prodesk-72:~/Desktop/Unix_Lab$
```

```
Activities Terminal Feb 14 4:37 PM student@al-hp-prodesk-72: ~/Desktop/Unix_Lab
Arunachal Pradesh
Himachal Pradesh
Madhya Pradesh
Uttar Pradesh

Pradesh
Pradesh
Pradesh
Pradesh
Pradesh

1:Andhra Pradesh
2:Arunachal Pradesh
9:Himachal Pradesh
14:Madhya Pradesh
27:Uttar Pradesh

Andhra Pradesh
Arunachal Pradesh
Assam
Bihar
Chhattisgarh
Goa
Gujarat
Haryana
Himachal Pradesh
Jharkhand
Karnataka
Kerala
Madhya Pradesh
Manipur
Meghalaya
Mizoram
Nagaland
Odisha
Punjab
Sikkim
Tamil Nadu
Telangana
Tripura
Uttar Pradesh
Uttarakhand
West Bengal

student@al-hp-prodesk-72:~/Desktop/Unix_Lab$
```

GREP CODE

```
grep -i "as" state.txt
echo
grep -c "as" state.txt
echo
grep -l "s" *
echo
grep -w "Pradesh" state.txt
echo
grep -o "Pradesh" state.txt
echo
grep -n "Pradesh" state.txt
echo
grep -v "as" state.txt
echo
```

```
Activities Terminal Feb 14 4:37 PM
student@al-hp-prodesk-72: ~/Desktop/Unix_Lab
student@al-hp-prodesk-72:~/Desktop/Unix_Lab$ chmod a+x grep.sh
student@al-hp-prodesk-72:~/Desktop/Unix_Lab$ ./grep.sh
Assam
Jammu and Kashmir
Maharashtra
Rajasthan
3
grep.sh
month.txt
name.txt
Screenshot from 2024-02-14 16-30-52.png
Screenshot from 2024-02-14 16-31-31.png
Screenshot from 2024-02-14 16-33-46.png
Screenshot from 2024-02-14 16-33-48.png
Screenshot from 2024-02-14 16-34-54.png
Screenshot from 2024-02-14 16-34-56.png
Screenshot from 2024-02-14 16-35-52.png
Screenshot from 2024-02-14 16-36-04.png
Screenshot from 2024-02-14 16-36-06.png
sort.sh
state.txt
tail.sh
Andhra Pradesh
Arunachal Pradesh
Himachal Pradesh
Madhya Pradesh
Uttar Pradesh
Pradesh
Pradesh
Pradesh
Pradesh
1:Andhra Pradesh
2:Arunachal Pradesh
9:Himachal Pradesh
14:Madhya Pradesh
27:Uttar Pradesh
Andhra Pradesh
Arunachal Pradesh
Assam
```

```
Activities Terminal Feb 14 4:36 PM
student@al-hp-prodesk-72: ~/Desktop/Unix_Lab
2024-02-14 14:32 name2.txt Page 1
1 100
2 121
3 63
4 52
5 98
6 35
7 72
8 158
9 102
10 52
11 63
12 98
```

```
Activities Terminal Feb 14 4:36 PM student@ai-hp-prodesk-72: ~/Desktop/Unix_Lab

100
121
63
52
98
35
72
158
102
52
63
98

2024-02-14 14:32 name2.txt Page 1

100
121
63
52
98
35
72
158
102
52
63
98
```

PR CODE :

```
pr -4 name2.txt
echo
pr -t name2.txt
echo
pr -d name2.txt
echo
pr -n name2.txt
echo
```

```
Activities Terminal Feb 14 4:35 PM student@ai-hp-prodesk-72: ~/Desktop/Unix_Lab

student@ai-hp-prodesk-72:~/Desktop/Unix_Lab$ chmod u+x pr.sh
student@ai-hp-prodesk-72:~/Desktop/Unix_Lab$ ./pr.sh

2024-02-14 14:32 name2.txt Page 1

100      52      72      52
121      98      158     63
63       35      102     98
```

```
Activities Terminal Feb 14 4:33 PM
student@ai-hp-prodesk-72: ~/Desktop/Unix_Lab

12
==> name.txt <==
sumanth
Abhishek
bharath
Surya
teja
Sandy
Krishna
Anand
Bhanu

==> name2.txt <==
100
121
63
52
98
35
72
158
102
52

sumanth
Abhishek
bharath
Surya
teja
Sandy
Krishna
Anand
Bhanu
100
121
63
52
98
35
72
158
102
52

student@ai-hp-prodesk-72:~/Desktop/Unix_Lab$
```

TAIL CODE :

```
tail state.txt
echo
tail -n 6 state.txt
echo
tail -c 20 state.txt
echo
tail name2.txt state.txt
echo
tail -q name2.txt state.txt
echo
```

```
Activities Terminal Feb 14 4:34 PM
student@ai-hp-prodesk-72: ~/Desktop/Unix_Lab

student@ai-hp-prodesk-72:~/Desktop/Unix_Lab$ chmod u+x tail.sh
student@ai-hp-prodesk-72:~/Desktop/Unix_Lab$ ./tail.sh
Odisha
Punjab
Rajasthan
Sikkim
Tamil Nadu
Telangana
Tripura
Uttar Pradesh
Uttarakhand
West Bengal

Tamil Nadu
Telangana
Tripura
Uttar Pradesh
Uttarakhand
West Bengal

rakhanda
West Bengal

==> name2.txt <==
63
52
98
35
72
158
102
52
63
98

==> state.txt <==
Odisha
Punjab
Rajasthan
Sikkim
Tamil Nadu
Telangana
Tripura
Uttar Pradesh
Uttarakhand
West Bengal
```



```
Activities Terminal Feb 14 4:31 PM
student@ai-hp-prodesk-72: ~/Desktop/Unix_Lab

52
63
63
72
98
98
100
102
121
158

35
52
63
72
98
100
102
121
158

sort: name2.txt:4: disorder: 52

158
121
102
100
98
98
72
63
63
52
52
35

January
March
June
July
August
November
December

student@ai-hp-prodesk-72:~/Desktop/Unix_Lab$
```

HEAD CODE :

```
head -n 5 name2.txt
echo
head -c 6 name2.txt
echo
head name.txt name2.txt
echo
head -q name.txt name2.txt
echo
```

```
Activities Terminal Feb 14 4:33 PM
student@ai-hp-prodesk-72: ~/Desktop/Unix_Lab

student@ai-hp-prodesk-72:~/Desktop/Unix_Lab$ chmod u+x head.sh
student@ai-hp-prodesk-72:~/Desktop/Unix_Lab$ ./head.sh
100
121
63
52
98

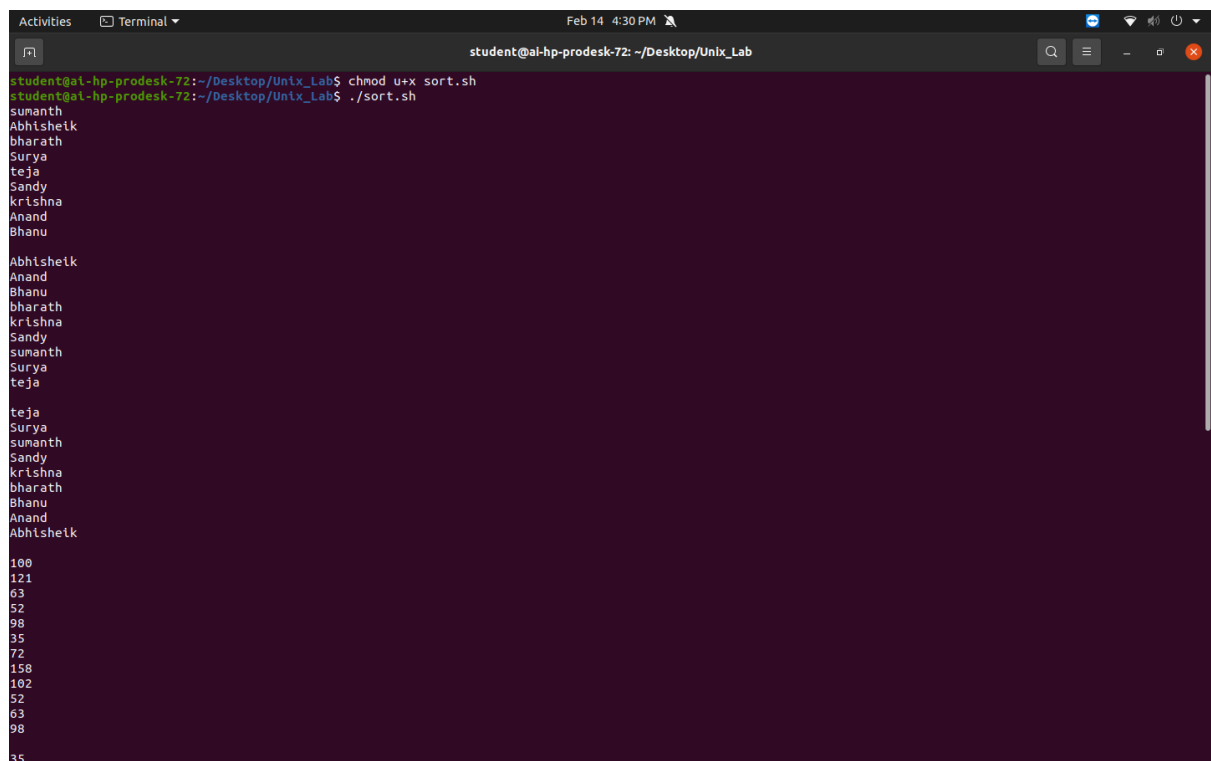
100
12
==> name.txt <==
sumanth
Abhishek
bharath
Surya
teja
Sandy
krishna
Anand
Bhanu

==> name2.txt <==
100
121
63
52
98
35
72
158
102
52

sumanth
Abhishek
bharath
Surya
teja
Sandy
krishna
Anand
Bhanu
100
121
63
52
```

SORT CODE :

```
cat name.txt
echo
sort name.txt
echo
sort -r name.txt
echo
cat name2.txt
echo
sort -n name2.txt
echo
sort -n -u name2.txt
echo
sort -c name2.txt
echo
sort -nr name2.txt
echo
sort -M month.txt
echo
```



```
student@al-hp-prodesk-72: ~/Desktop/Unix_Lab
student@al-hp-prodesk-72:~/Desktop/Unix_Lab$ chmod u+x sort.sh
student@al-hp-prodesk-72:~/Desktop/Unix_Lab$ ./sort.sh
sumanth
Abhisheik
bharath
Surya
teja
Sandy
krishna
Anand
Bhanu

Abhisheik
Anand
Bhanu
bharath
krishna
Sandy
sumanth
Surya
teja

teja
Surya
sumanth
Sandy
krishna
bharath
Bhanu
Anand
Abhisheik

100
121
63
52
98
35
72
158
102
52
63
98
35
```

422119

B SUSHANTH JONAS

SECTION A

SUSHANTHJONAS