NAME : ANUMANDLA PAVAN

ROLL NO: 422178

SEC : A

UNIX LAB WEEK 3

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

1)PR command

```
pavan422178@pavan422178-VirtualBox:~/Desktop/422178_shell_Script/LAB2$ pr -t file1.txt
Telangana
Tamilnadu
Karnataka
Maharashtra
Gujarat
Jammu Kashmir
Assam
pavan422178@pavan422178-VirtualBox:~/Desktop/422178_shell_Script/LAB2$ pr -T file1.txt
Telangana
Tamilnadu
Karnataka
Maharashtra
Gujarat
Jammu Kashmir
Assam
pavan422178@pavan422178-VirtualBox:~/Desktop/422178_shell_Script/LAB2$ pr -w 50 file1.txt


2024-02-18 13:05        file1.txt          Page 1


Telangana
Tamilnadu
Karnataka
Maharashtra
Gujarat
Jammu Kashmir
Assam
```

```
pavan422178@pavan422178-VirtualBox:~/Desktop/422178_shell_Script/LAB2$ pr -s file1.txt


2024-02-18 13:05                file1.txt                Page 1

Telangana
Tamilnadu
Karnataka
Maharashtra
Gujarat
Jammu Kashmir
Assam
```

```
pavan422178@pavan422178-VirtualBox:~/Desktop/422178_shell_Script/LAB2$ pr -o 5 file2.txt


     2024-02-18 13:06                  file2.txt                   Page 1


     Hyderabad
     Chennai
     Bengaluru
     Mumbai
     Srinagar
     Dispur
```

```
pavan422178@pavan422178-VirtualBox:~/Desktop/422178_shell_Script/LAB2$ pr -N 10 file1.txt

2024-02-18 13:05                  file1.txt                   Page 1

Telangana
Tamilnadu
Karnataka
Maharashtra
Gujarat
Jammu Kashmir
Assam
```

```
pavan422178@pavan422178-VirtualBox:~/Desktop/422178_shell_Script/LAB2$ pr -n file1.txt

2024-02-18 13:05                    file1.txt                    Page 1


       1    Telangana
       2    Tamilnadu
       3    Karnataka
       4    Maharashtra
       5    Gujarat
       6    Jammu Kashmir
       7    Assam
```

```
pavan422178@pavan422178-VirtualBox:~/Desktop/422178_shell_Script/LAB2$ pr -h "header" -m file1.txt file2.txt

2024-02-18 13:21                    header                       Page 1

Telangana                    Hyderabad
Tamilnadu                    Chennai
Karnataka                    Bengaluru
Maharashtra                  Mumbai
Gujarat                      Srinagar
Jammu Kashmir                Dispur
Assam
```

```
pavan422178@pavan422178-VirtualBox:~/Desktop/422178_shell_Script/LAB2$ pr -l 30 file1.txt


2024-02-18 13:05                    file1.txt                    Page 1


Telangana
Tamilnadu
Karnataka
Maharashtra
Gujarat
Jammu Kashmir
Assam
```

```
pavan422178@pavan422178-VirtualBox:~/Desktop/422178_shell_Script/LAB2$ pr -l 20 file2.txt


2024-02-18 13:06                    file2.txt                    Page 1


Hyderabad
Chennai
Bengaluru
Mumbai
Srinagar
Dispur
```

```
pavan422178@pavan422178-VirtualBox:~/Desktop/422178_shell_Script/LAB2$ pr -i file1.txt


2024-02-18 13:05                    file1.txt                    Page 1


Telangana
Tamilnadu
Karnataka
Maharashtra
Gujarat
Jammu Kashmir
Assam
```

```
pavan422178@pavan422178-VirtualBox:~/Desktop/422178_shell_Script/LAB2$ pr -h "HEADER OF FILE 1" file1.txt


2024-02-18 13:05              HEADER OF FILE 1              Page 1


Telangana
Tamilnadu
Karnataka
Maharashtra
Gujarat
Jammu Kashmir
Assam
```

```
pavan422178@pavan422178-VirtualBox:~/Desktop/422178_shell_Script/LAB2$ pr -f file1.txt file2.txt

2024-02-18 13:05                    file1.txt                    Page 1


Telangana
Tamilnadu
Karnataka
Maharashtra
Gujarat
Jammu Kashmir
Assam



2024-02-18 13:06                    file2.txt                    Page 1


Hyderabad
Chennai
Bengaluru
Mumbai
Srinagar
Dispur

pavan422178@pavan422178-VirtualBox:~/Desktop/422178_shell_Script/LAB2$ pr -f -3 file1.txt

2024-02-18 13:05                    file1.txt                    Page 1


Telangana              Maharashtra          Jammu Kashmir
Tamilnadu              Gujarat              Assam
Karnataka

pavan422178@pavan422178-VirtualBox:~/Desktop/422178_shell_Script/LAB2$ pr -f -3 file2.txt

2024-02-18 13:06                    file2.txt                    Page 1


Hyderabad              Bengaluru            Srinagar
Chennai                Mumbai               Dispur

pavan422178@pavan422178-VirtualBox:~/Desktop/422178_shell_Script/LAB2$
```

```
pavan422178@pavan422178-VirtualBox:~/Desktop/422178_shell_Script/LAB2$ pr -D "%Y-%d-%m" file1.txt


2024-18-02                        file1.txt                        Page 1


Telangana
Tamilnadu
Karnataka
Maharashtra
Gujarat
Jammu Kashmir
Assam
```

```
pavan422178@pavan422178-VirtualBox:~/Desktop/422178_shell_Script/LAB2$ pr -d file1.txt


2024-02-18 13:05                  file1.txt                        Page 1

Telangana

Tamilnadu

Karnataka

Maharashtra

Gujarat

Jammu Kashmir

Assam
```

```
2024-02-18 13:06             file2.txt               Page 1


Hyderabad                    Chennai
Bengaluru                    Mumbai
Srinagar                     Dispur
```

```
2024-02-18 13:05             file1.txt               Page 1


Telangana                    Tamilnadu
Karnataka                    Maharashtra
Gujarat                      Jammu Kashmir
Assam
```

```
pavan422178@pavan422178-VirtualBox:~/Desktop/422178_shell_Script/LAB2$ pr -3 file1.txt


2024-02-18 13:05                    file1.txt                    Page 1


Telangana              Maharashtra          Jammu Kashmir
Tamilnadu              Gujarat              Assam
Karnataka
```

```
pavan422178@pavan422178-VirtualBox:~/Desktop/422178_shell_Script/LAB2$ cat file1.txt
Telangana
Tamilnadu
Karnataka
Maharashtra
Gujarat
Jammu Kashmir
Assam
pavan422178@pavan422178-VirtualBox:~/Desktop/422178_shell_Script/LAB2$ cat file2.txt
Hyderabad
Chennai
Bengaluru
Mumbai
Srinagar
Dispur
pavan422178@pavan422178-VirtualBox:~/Desktop/422178_shell_Script/LAB2$
```

2)GRRP command

```
pavan422178@pavan422178-VirtualBox:~/Desktop/422178_shell_Script/LAB2$ cat file1.txt
Telangana
Tamilnadu
Karnataka
Maharashtra
Gujarat
Jammu Kashmir
Assam
pavan422178@pavan422178-VirtualBox:~/Desktop/422178_shell_Script/LAB2$ cat file3.txt
The dog is an faithful animal.It helps the owner in number of ways.It is the most connected animal species to the human species.
pavan422178@pavan422178-VirtualBox:~/Desktop/422178_shell_Script/LAB2$ grep -i "IT" file3.txt
The dog is an faithful animal.It helps the owner in number of ways.It is the most connected animal species to the human species.
pavan422178@pavan422178-VirtualBox:~/Desktop/422178_shell_Script/LAB2$ grep -c "is" file3.txt
1
pavan422178@pavan422178-VirtualBox:~/Desktop/422178_shell_Script/LAB2$ grep -l "a" file1.txt file2.txt file3.txt
file1.txt
file2.txt
file3.txt
pavan422178@pavan422178-VirtualBox:~/Desktop/422178_shell_Script/LAB2$ grep -w "is" file3.txt
The dog is an faithful animal.It helps the owner in number of ways.It is the most connected animal species to the human species.
pavan422178@pavan422178-VirtualBox:~/Desktop/422178_shell_Script/LAB2$ cat >> file3.txt
hello is a word.
King is a word.
pavan422178@pavan422178-VirtualBox:~/Desktop/422178_shell_Script/LAB2$ cat file3.txt
The dog is an faithful animal.It helps the owner in number of ways.It is the most connected animal species to the human species.
hello is a word.
King is a word.
pavan422178@pavan422178-VirtualBox:~/Desktop/422178_shell_Script/LAB2$ grep -o "is" file3.txt
is
is
is
is
```

```
is
is
is
pavan422178@pavan422178-VirtualBox:~/Desktop/422178_shell_Script/LAB2$ grep -n "is" file3.txt
1:The dog is an faithful animal.It helps the owner in number of ways.It is the most connected animal species to the human species.
2:hello is a word.
3:King is a word.
pavan422178@pavan422178-VirtualBox:~/Desktop/422178_shell_Script/LAB2$ grep -v "is" file3.txt
pavan422178@pavan422178-VirtualBox:~/Desktop/422178_shell_Script/LAB2$ grep "^king" file3.txt
pavan422178@pavan422178-VirtualBox:~/Desktop/422178_shell_Script/LAB2$ grep "^King" file3.txt
King is a word.
pavan422178@pavan422178-VirtualBox:~/Desktop/422178_shell_Script/LAB2$ grep "word$" file3.txt
pavan422178@pavan422178-VirtualBox:~/Desktop/422178_shell_Script/LAB2$
```

3)CUT command

```
pavan422178@pavan422178-VirtualBox:~/Desktop/422178_shell_Script/LAB2$ cat file1.txt
Telangana
Tamilnadu
Karnataka
Maharashtra
Gujarat
Jammu Kashmir
Assam
pavan422178@pavan422178-VirtualBox:~/Desktop/422178_shell_Script/LAB2$ cat file2.txt
Hyderabad
Chennai
Bengaluru
Mumbai
Srinagar
Dispur
pavan422178@pavan422178-VirtualBox:~/Desktop/422178_shell_Script/LAB2$ cut -b 1,2,3 file1.txt
Tel
Tam
Kar
Mah
Guj
Jam
Ass
pavan422178@pavan422178-VirtualBox:~/Desktop/422178_shell_Script/LAB2$ cut -b 1-3,5-7 file2.txt
Hydrab
Chenai
Benalu
Mumai
Sriaga
Disur
pavan422178@pavan422178-VirtualBox:~/Desktop/422178_shell_Script/LAB2$ cut -b 1- file1.txt
Telangana
```

```
pavan422178@pavan422178-VirtualBox:~/Desktop/422178_shell_Script/LAB2$ cut -b 1- file1.txt
Telangana
Tamilnadu
Karnataka
Maharashtra
Gujarat
Jammu Kashmir
Assam
pavan422178@pavan422178-VirtualBox:~/Desktop/422178_shell_Script/LAB2$ cut -b -3 file2.txt
Hyd
Che
Ben
Mum
Sri
Dis
pavan422178@pavan422178-VirtualBox:~/Desktop/422178_shell_Script/LAB2$ cut -c 2,5,7 file1.txt
ena
ala
aaa
ars
urt
auK
sm
pavan422178@pavan422178-VirtualBox:~/Desktop/422178_shell_Script/LAB2$ cut -c -5 file1.txt
Telan
Tamil
Karna
Mahar
Gujar
Jammu
Assam
pavan422178@pavan422178-VirtualBox:~/Desktop/422178_shell_Script/LAB2$ cut -f 1 file2.txt
```

```
pavan422178@pavan422178-VirtualBox:~/Desktop/422178_shell_Script/LAB2$ cut -d "|" -f 1-4 file1.txt
Telangana
Tamilnadu
Karnataka
Maharashtra
Gujarat
Jammu Kashmir
Assam
pavan422178@pavan422178-VirtualBox:~/Desktop/422178_shell_Script/LAB2$ cut -d " " -f 6 file1.txt --output-delimiter="%"
Telangana
Tamilnadu
Karnataka
Maharashtra
Gujarat

Assam
pavan422178@pavan422178-VirtualBox:~/Desktop/422178_shell_Script/LAB2$
```

4)HEAD command

```
Hyderabad
Chennai
Bengaluru
Mumbai
Srinagar
Dispur
pavan422178@pavan422178-VirtualBox:~/Desktop/422178_shell_Script/LAB2$ head -v file1.txt
==> file1.txt <==
Telangana
Tamilnadu
Karnataka
Maharashtra
Gujarat
Jammu Kashmir
Assam
pavan422178@pavan422178-VirtualBox:~/Desktop/422178_shell_Script/LAB2$
```

5)TAIL command

```
pavan422178@pavan422178-VirtualBox:~/Desktop/422178_shell_Script/LAB2$ cat file1.txt
Telangana
Tamilnadu
Karnataka
Maharashtra
Gujarat
Jammu Kashmir
Assam
pavan422178@pavan422178-VirtualBox:~/Desktop/422178_shell_Script/LAB2$ cat file2.txt
Hyderabad
Chennai
Bengaluru
Mumbai
Srinagar
Dispur
pavan422178@pavan422178-VirtualBox:~/Desktop/422178_shell_Script/LAB2$ tail file1.txt
Telangana
Tamilnadu
Karnataka
Maharashtra
Gujarat
Jammu Kashmir
Assam
pavan422178@pavan422178-VirtualBox:~/Desktop/422178_shell_Script/LAB2$ tail file2.txt
Hyderabad
Chennai
Bengaluru
Mumbai
Srinagar
Dispur
pavan422178@pavan422178-VirtualBox:~/Desktop/422178_shell_Script/LAB2$ tail -3 file2.txt
```

```
pavan422178@pavan422178-VirtualBox:~/Desktop/422178_shell_Script/LAB2$ tail -3 file2.txt
Mumbai
Srinagar
Dispur
pavan422178@pavan422178-VirtualBox:~/Desktop/422178_shell_Script/LAB2$ tail -n 3 file1.txt
Gujarat
Jammu Kashmir
Assam
pavan422178@pavan422178-VirtualBox:~/Desktop/422178_shell_Script/LAB2$ tail +10 file1.txt
pavan422178@pavan422178-VirtualBox:~/Desktop/422178_shell_Script/LAB2$ tail -c  -5 file2.txt
spur
pavan422178@pavan422178-VirtualBox:~/Desktop/422178_shell_Script/LAB2$ tail -c 5 file1.txt
ssam
pavan422178@pavan422178-VirtualBox:~/Desktop/422178_shell_Script/LAB2$ tail file1.txt file2.txt
==> file1.txt <==
Telangana
Tamilnadu
Karnataka
Maharashtra
Gujarat
Jammu Kashmir
Assam

==> file2.txt <==
Hyderabad
Chennai
Bengaluru
Mumbai
Srinagar
Dispur
pavan422178@pavan422178-VirtualBox:~/Desktop/422178_shell_Script/LAB2$ tail -q file1.txt file2.txt
```

```
pavan422178@pavan422178-VirtualBox:~/Desktop/422178_shell_Script/LAB2$ tail -q file1.txt file2.txt
Telangana
Tamilnadu
Karnataka
Maharashtra
Gujarat
Jammu Kashmir
Assam
Hyderabad
Chennai
Bengaluru
Mumbai
Srinagar
Dispur
pavan422178@pavan422178-VirtualBox:~/Desktop/422178_shell_Script/LAB2$ tail -v file1.txt
==> file1.txt <==
Telangana
Tamilnadu
Karnataka
Maharashtra
Gujarat
Jammu Kashmir
Assam
pavan422178@pavan422178-VirtualBox:~/Desktop/422178_shell_Script/LAB2$ tail --version
tail (GNU coreutils) 8.32
Copyright (C) 2020 Free Software Foundation, Inc.
License GPLv3+: GNU GPL version 3 or later <https://gnu.org/licenses/gpl.html>.
This is free software: you are free to change and redistribute it.
There is NO WARRANTY, to the extent permitted by law.

Written by Paul Rubin, David MacKenzie, Ian Lance Taylor,
```

6)PASTE command

```
pavan422178@pavan422178-VirtualBox:~/Desktop/422178_shell_Script/LAB2$ cat file1.txt
Telangana
Tamilnadu
Karnataka
Maharashtra
Gujarat
Jammu Kashmir
Assam
pavan422178@pavan422178-VirtualBox:~/Desktop/422178_shell_Script/LAB2$ cat file2.txt
Hyderabad
Chennai
Bengaluru
Mumbai
Srinagar
Dispur
pavan422178@pavan422178-VirtualBox:~/Desktop/422178_shell_Script/LAB2$ paste file1.txt file2.txt
Telangana        Hyderabad
Tamilnadu        Chennai
Karnataka        Bengaluru
Maharashtra      Mumbai
Gujarat Srinagar
Jammu Kashmir    Dispur
Assam
pavan422178@pavan422178-VirtualBox:~/Desktop/422178_shell_Script/LAB2$ paste -d "|" file1.txt file2.txt
Telangana|Hyderabad
Tamilnadu|Chennai
Karnataka|Bengaluru
Maharashtra|Mumbai
Gujarat|Srinagar
Jammu Kashmir|Dispur
Assam|
```

```
pavan422178@pavan422178-VirtualBox:~/Desktop/422178_shell_Script/LAB2$ paste -s file1.txt file2.txt
Telangana       Tamilnadu       Karnataka       Maharashtra     Gujarat Jammu Kashmir   Assam
Hyderabad       Chennai Bengaluru       Mumbai  Srinagar        Dispur
pavan422178@pavan422178-VirtualBox:~/Desktop/422178_shell_Script/LAB2$ paste -s -d "|," file1.txt file2.txt
Telangana|Tamilnadu,Karnataka|Maharashtra,Gujarat|Jammu Kashmir,Assam
Hyderabad|Chennai,Bengaluru|Mumbai,Srinagar|Dispur
pavan422178@pavan422178-VirtualBox:~/Desktop/422178_shell_Script/LAB2$
```

7) SORT command

```
pavan422178@pavan422178-VirtualBox:~/Desktop/422178_shell_Script/LAB2$ cat file1.txt
Telangana
Tamilnadu
Karnataka
Maharashtra
Gujarat
Jammu Kashmir
Assam
pavan422178@pavan422178-VirtualBox:~/Desktop/422178_shell_Script/LAB2$ cat file2.txt
Hyderabad
Chennai
Bengaluru
Mumbai
Srinagar
Dispur
pavan422178@pavan422178-VirtualBox:~/Desktop/422178_shell_Script/LAB2$ sort file1.txt
Assam
Gujarat
Jammu Kashmir
Karnataka
Maharashtra
Tamilnadu
Telangana
pavan422178@pavan422178-VirtualBox:~/Desktop/422178_shell_Script/LAB2$ sort file2.txt
Bengaluru
Chennai
Dispur
Hyderabad
Mumbai
Srinagar
pavan422178@pavan422178-VirtualBox:~/Desktop/422178_shell_Script/LAB2$ sort -r file1.txt
```

```
Tamilnadu
Maharashtra
Karnataka
Jammu Kashmir
Gujarat
Assam
pavan422178@pavan422178-VirtualBox:~/Desktop/422178_shell_Script/LAB2$ sort -k1 file2.txt
Bengaluru
Chennai
Dispur
Hyderabad
Mumbai
Srinagar
pavan422178@pavan422178-VirtualBox:~/Desktop/422178_shell_Script/LAB2$ sort -b file1.txt
Assam
Gujarat
Jammu Kashmir
Karnataka
Maharashtra
Tamilnadu
Telangana
pavan422178@pavan422178-VirtualBox:~/Desktop/422178_shell_Script/LAB2$ sort -R file1.txt
Gujarat
Maharashtra
Assam
Tamilnadu
Karnataka
Jammu Kashmir
Telangana
pavan422178@pavan422178-VirtualBox:~/Desktop/422178_shell_Script/LAB2$ sort -i file2.txt
Bengaluru
```

```
pavan422178@pavan422178-VirtualBox:~/Desktop/422178_shell_Script/LAB2$ sort -i file2.txt
Bengaluru
Chennai
Dispur
Hyderabad
Mumbai
Srinagar
pavan422178@pavan422178-VirtualBox:~/Desktop/422178_shell_Script/LAB2$ sort -f file2.txt
Bengaluru
Chennai
Dispur
Hyderabad
Mumbai
Srinagar
pavan422178@pavan422178-VirtualBox:~/Desktop/422178_shell_Script/LAB2$
```

8)UNIQ command

```
pavan422178@pavan422178-VirtualBox:~/Desktop/422178_shell_Script/LAB2$ cat file4.txt
ASSAM
ASSAM
TELANGANA
TELANGANA
TELANGANA
GUJARAT
pavan422178@pavan422178-VirtualBox:~/Desktop/422178_shell_Script/LAB2$ uniq file4.txt
ASSAM
TELANGANA
GUJARAT
pavan422178@pavan422178-VirtualBox:~/Desktop/422178_shell_Script/LAB2$ uniq -c file4.txt
      2 ASSAM
      3 TELANGANA
      1 GUJARAT
pavan422178@pavan422178-VirtualBox:~/Desktop/422178_shell_Script/LAB2$ uniq -d file4.txt
ASSAM
TELANGANA
pavan422178@pavan422178-VirtualBox:~/Desktop/422178_shell_Script/LAB2$ uniq -D file4.txt
ASSAM
ASSAM
TELANGANA
TELANGANA
TELANGANA
pavan422178@pavan422178-VirtualBox:~/Desktop/422178_shell_Script/LAB2$ uniq -u file4.txt
GUJARAT
pavan422178@pavan422178-VirtualBox:~/Desktop/422178_shell_Script/LAB2$ uniq -f 2 file4.txt
ASSAM
pavan422178@pavan422178-VirtualBox:~/Desktop/422178_shell_Script/LAB2$ uniq -s 3 file4.txt
ASSAM
TELANGANA
```

```
TELANGANA
GUJARAT
pavan422178@pavan422178-VirtualBox:~/Desktop/422178_shell_Script/LAB2$ uniq -w 2 file4.txt
ASSAM
TELANGANA
GUJARAT
pavan422178@pavan422178-VirtualBox:~/Desktop/422178_shell_Script/LAB2$ uniq -z file4.txt
ASSAM
ASSAM
TELANGANA
TELANGANA
TELANGANA
GUJARAT
pavan422178@pavan422178-VirtualBox:~/Desktop/422178_shell_Script/LAB2$
```

9)TR command


```
pavan422178@pavan422178-VirtualBox:~/Deskto      pavan422178@pavan422178-VirtualBox: ~/Desktop/422178_shell_Script/LAB2   $ cat file5.txt
Welcome To
NIT AP
pavan422178@pavan422178-VirtualBox:~/Desktop/422178_shell_Script/LAB2$ cat file5.txt | tr [a-z] [A-Z]
WELCOME TO
NIT AP
pavan422178@pavan422178-VirtualBox:~/Desktop/422178_shell_Script/LAB2$ cat file5.txt | tr [:space:] "\t"
Welcome To      NIT     AP      pavan422178@pavan422178-VirtualBox:~/Desktop/422178_shell_Script/LAB2$
pavan422178@pavan422178-VirtualBox:~/Desktop/422178_shell_Script/LAB2$ tr -cd [:digit:] <<< "my ID is 73535"
73535pavan422178@pavan422178-VirtualBox:~/Desktop/422178_shell_Script/LAB2$
pavan422178@pavan422178-VirtualBox:~/Desktop/422178_shell_Script/LAB2$ tr -d W <<< "Welcome to GeeksforGeeks"
elcome to GeeksforGeeks
pavan422178@pavan422178-VirtualBox:~/Desktop/422178_shell_Script/LAB2$
```