

# UNIX

## Assignment-01

Name-G.Kalyan Ram

RollNo:422150

Q) Write Shell Script For Searching For various patterns using grep,pr,head,tail,cut,paste,sort,uniq,tr..

Outputs:

```
(base) student@welcome:~/Desktop/422150/unix-scripts$ ! pr number.txt
```

```
2024-01-19 11:33                                number.txt                                Page 1
1
2
3
4
```

pr-command↑

```
(base) student@welcome:~/Desktop/422150/unix-scripts$ ! pr -t number.txt
1
2
3
4
(base) student@welcome:~/Desktop/422150/unix-scripts$ ! pr -d number.txt
```

```
2024-01-19 11:33                                number.txt                                Page 1
```

```
1
2
3
4
-
```

pr-command↑

```
(base) student@welcome:~/Desktop/422150/unix-scripts$ ! pr -3 number.txt
```

```
2024-02-14 14:25                                number.txt                                Page 1
```

```
0                                4                                8
1                                5                                9
2                                6
3                                7
```

pr-command↑

```
(base) student@welcome:~/Desktop/422150/unix-scripts$ cat file1.txt
hello world
I am Kalyan
Good morning
Bhupathi
SaiTeja
Joshua
krishna
rakesh
kapil
harish
rajesh
yegnesh
shahul
(base) student@welcome:~/Desktop/422150/unix-scripts$ head file1.txt
hello world
I am Kalyan
Good morning
Bhupathi
SaiTeja
Joshua
krishna
rakesh
kapil
harish
(base) student@welcome:~/Desktop/422150/unix-scripts$
```

head-command↑

```
(base) student@welcome:~/Desktop/422150/unix-scripts$ cat file1.txt
hello world
I am Kalyan
Good morning
Bhupathi
SaiTeja
Joshua
krishna
rakesh
kapil
harish
rajesh
yegnesh
shahul
(base) student@welcome:~/Desktop/422150/unix-scripts$ head file1.txt
hello world
I am Kalyan
Good morning
Bhupathi
SaiTeja
Joshua
krishna
rakesh
kapil
harish
(base) student@welcome:~/Desktop/422150/unix-scripts$ head -n 2 file1.txt
hello world
I am Kalyan
(base) student@welcome:~/Desktop/422150/unix-scripts$ head -c 20 file1.txt
hello world
I am Kal(base) student@welcome:~/Desktop/422150/unix-scripts$ head -v file1.txt
==> file1.txt <==
hello world
I am Kalyan
Good morning
Bhupathi
SaiTeja
Joshua
krishna
rakesh
kapil
harish
(base) student@welcome:~/Desktop/422150/unix-scripts$ head file1.txt number.txt
```

head-command↑

```
(base) student@welcome:~/Desktop/422150/unix-scripts$ head file1.txt number.txt
==> file1.txt <==
hello world
I am Kalyan
Good morning
Bhupathi
SaiTeja
Joshua
krishna
rakesh
kapil
harish

==> number.txt <==
0
1
2
3
4
5
6
7
8
9
(base) student@welcome:~/Desktop/422150/unix-scripts$ head number.txt > out_number.txt
(base) student@welcome:~/Desktop/422150/unix-scripts$ cat out_number.txt
0
1
2
3
4
5
6
7
8
9
(base) student@welcome:~/Desktop/422150/unix-scripts$ tail +5 out_number.txt
4
5
6
7
8
9
(base) student@welcome:~/Desktop/422150/unix-scripts$ ls
```

head,tail-commands↑↑

```
(base) student@welcome:~/Desktop/422150/unix-scripts$ cut -c 3-7 file1.txt
llo w
am Ka
od mo
upath
iTeja
shua
ishna
kesh
pil
rish
jesh
gnesh
ahul
(base) student@welcome:~/Desktop/422150/unix-scripts$ ls
factorial.sh fibonacci.sh file1.txt number.txt out_number.txt pallindrome.sh
(base) student@welcome:~/Desktop/422150/unix-scripts$ paste file1.txt number.txt
hello world      0
I am Kalyan      1
Good morning     2
Bhupathi         3
SaiTeja 4
Joshua 5
krishna 6
rakesh 7
kapil 8
harish 9
rajesh
yegnesh
shahul
(base) student@welcome:~/Desktop/422150/unix-scripts$ paste -d "|" file1.txt number.txt
hello world|0
I am Kalyan|1
Good morning|2
Bhupathi|3
SaiTeja|4
Joshua|5
krishna|6
rakesh|7
kapil|8
harish|9
rajesh|
yegnesh|
shahul|
(base) student@welcome:~/Desktop/422150/unix-scripts$
```

Paste-command↑↑

```
(base) student@welcome:~/Desktop/422150/unix-scripts$ ls
factorial.sh fibonacci.sh file1.txt number.txt out_number.txt pallindrome.sh
(base) student@welcome:~/Desktop/422150/unix-scripts$ cat file1.txt
hello world
I am Kalyan
Good morning
Bhupathi
SaiTeja
Joshua
krishna
rakesh
kapil
harish
rajesh
yegnesh
shahul
(base) student@welcome:~/Desktop/422150/unix-scripts$ cut -b 1,2,3 file1.txt
hel
I a
Goo
Bhu
Sai
Jos
kri
rak
kap
har
raj
yeg
sha
(base) student@welcome:~/Desktop/422150/unix-scripts$ cut -b -5 file1.txt
hello
I am
Good
Bhupa
SaiTe
Joshu
krish
rakes
kapil
haris
rajes
yegne
shahu
(base) student@welcome:~/Desktop/422150/unix-scripts$
```

cut-command↑↑

```

(base) student@welcome:~/Desktop/422150/unix-scripts$ paste -s -d ":" file1.txt number.txt number.txt
hello world:I am Kalyan:Good morning:Bhupathi:SaiTeja:Joshua:krishna:rakesh:kapil:harish:rajesh:yegnesh:shahul
0:1:2:3:4:5:6:7:8:9:
0:1:2:3:4:5:6:7:8:9:
(base) student@welcome:~/Desktop/422150/unix-scripts$ sort file1.txt
Bhupathi
Good morning
harish
hello world
I am Kalyan
Joshua
kapil
krishna
rajesh
rakesh
SaiTeja
shahul
yegnesh
(base) student@welcome:~/Desktop/422150/unix-scripts$ cat file1.txt
hello world
I am Kalyan
Good morning
Bhupathi
SaiTeja
Joshua
krishna
rakesh
kapil
harish
rajesh
yegnesh
shahul
(base) student@welcome:~/Desktop/422150/unix-scripts$ sort -r file1.txt
yegnesh
shahul
SaiTeja
rakesh
rajesh
krishna
kapil
Joshua
I am Kalyan
hello world
harish
Good morning
Bhupathi
krishna|6
rakesh|7
kapil|8
harish|9
rajesh|
yegnesh|
shahul|
(base) student@welcome:~/Desktop/422150/unix-scripts$ █

```

sort,cat-commands↑↑



```
1
(base) student@welcome:~/Desktop/422150/unix-scripts$ sort file2.txt

Bhupathi
Bhupathi
Good morning
harish
hello world
I am Kalyan
Joshua
kapil
krishna
krishna
rajesh
rakesh
rakesh
rakesh
SaiTeja
shahul
yegnesh
(base) student@welcome:~/Desktop/422150/unix-scripts$ uniq file2.txt
hello world
I am Kalyan
Good morning
Bhupathi
SaiTeja
Joshua
krishna
rakesh
kapil
rakesh
harish
rajesh
yegnesh
rakesh
shahul
```

Sort,uniq-commands ↑

```

(base) student@welcome:~/Desktop/422150/unix-scripts$ uniq -c file2.txt
 1 hello world
 1 I am Kalyan
 1 Good morning
 2 Bhupathi
 1 SaiTeja
 1 Joshua
 2 krishna
 1 rakesh
 1 kapil
 1 rakesh
 1 harish
 1 rajesh
 1 yegnesh
 1 rakesh
 1 shahul
 1
(base) student@welcome:~/Desktop/422150/unix-scripts$ uniq -d file2.txt
Bhupathi
krishna
(base) student@welcome:~/Desktop/422150/unix-scripts$ uniq -u file2.txt
hello world
I am Kalyan
Good morning
SaiTeja
Joshua
rakesh
kapil
rakesh
harish
rajesh
yegnesh
rakesh
shahul

(base) student@welcome:~/Desktop/422150/unix-scripts$ ls
factorial.sh  fibonacci.sh  file1.txt  file2.txt  number.txt  out_number.txt  pallindrome.sh
(base) student@welcome:~/Desktop/422150/unix-scripts$ cat file1.txt

```

Uniq-command↑

```
(base) student@welcome:~/Desktop/422150/unix-scripts$ cat file1.txt
hello world
I am Kalyan
Good morning
Bhupathi
SaiTeja
Joshua
Krishna
Rakesh
Kapil
Harish
Rajesh
Yegnesh
Shahul
(base) student@welcome:~/Desktop/422150/unix-scripts$ cat file1.txt | tr [a-z] [A-Z]
HELLO WORLD
I AM KALYAN
GOOD MORNING
BHUPATHI
SAITEJA
JOSHUA
KRISHNA
RAKESH
KAPIL
HARISH
RAJESH
YEGNESH
SHAHUL
(base) student@welcome:~/Desktop/422150/unix-scripts$ echo "Welcome to GeeksforGeeks" | tr -d W
elcome to GeeksforGeeks
(base) student@welcome:~/Desktop/422150/unix-scripts$ echo "my ID is 737767" | tr -d [:digit]
my ID s 737767
(base) student@welcome:~/Desktop/422150/unix-scripts$ cat file2.txt
hello world
I am Kalyan
```

Cat,echo ,tr commands ↑↑

```
(base) student@welcome:~/Desktop/422150/unix-scripts$ cat file2.txt
hello world
I am Kalyan
Good morning
Bhupathi
Bhupathi
SaiTeja
Joshua
krishna
krishna
rakesh
kapil
rakesh
harish
rajesh
yegnesh
rakesh
shahul

(base) student@welcome:~/Desktop/422150/unix-scripts$ grep -i "Sai" file2.txt
SaiTeja
(base) student@welcome:~/Desktop/422150/unix-scripts$ grep -c "Bhupathi" file2.txt
2
(base) student@welcome:~/Desktop/422150/unix-scripts$ grep -w "Bhu" file2.txt
(base) student@welcome:~/Desktop/422150/unix-scripts$ grep -w "rakesh" file2.txt
rakesh
rakesh
rakesh
(base) student@welcome:~/Desktop/422150/unix-scripts$ grep -o "krishna" file2.txt
krishna
krishna
(base) student@welcome:~/Desktop/422150/unix-scripts$ grep -n "krishna" file2.txt
8:krishna
9:krishna
(base) student@welcome:~/Desktop/422150/unix-scripts$
```

Grep-command ↑