

**ROLL NO : 422176**

**NAME : KOTA VENKATA CHARAN TEJA**

**SECTION:A**

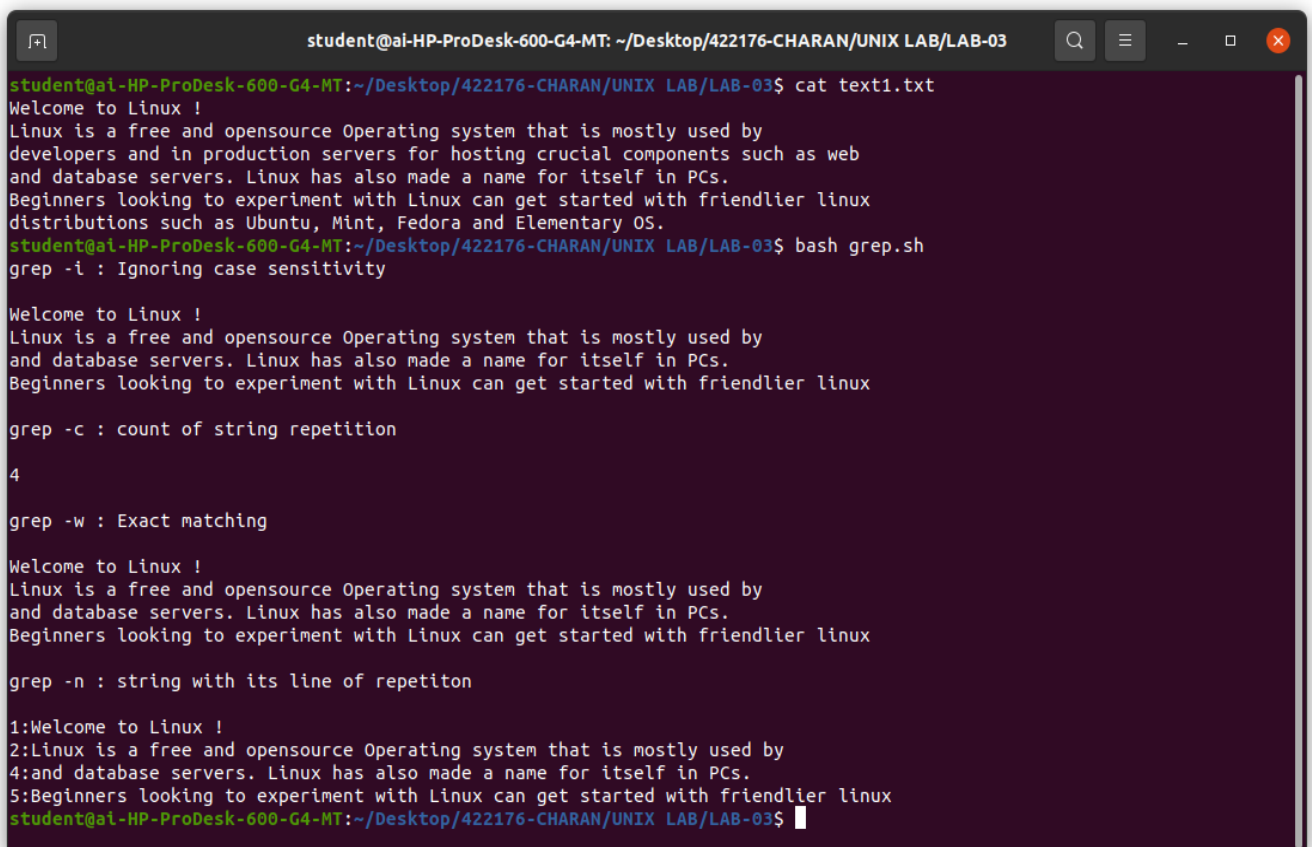
### **QUESTION:**

(week3) :Write shell script for searching for various patterns using grep, pr, head, tail, cut, paste, sort, uniq, and tr.

### **GREP.SH**

```
#!/bin/bash
echo -e 'grep -i : Ignoring case sensitivity\n';
grep -i "LINUX" text1.txt;
echo -e '\ngrep -c : count of string repetition\n';
grep -c "Linux" text1.txt;
echo -e '\ngrep -w : Exact matching\n';
grep -w "Linux" text1.txt;
echo -e '\ngrep -n : string with its line of repetiton\n';
grep -n "Linux" text1.txt;
```

### **OUTPUT:**



```
student@ai-HP-ProDesk-600-G4-MT: ~/Desktop/422176-CHARAN/UNIX LAB/LAB-03
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422176-CHARAN/UNIX LAB/LAB-03$ cat text1.txt
Welcome to Linux !
Linux is a free and opensource Operating system that is mostly used by
developers and in production servers for hosting crucial components such as web
and database servers. Linux has also made a name for itself in PCs.
Beginners looking to experiment with Linux can get started with friendlier linux
distributions such as Ubuntu, Mint, Fedora and Elementary OS.
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422176-CHARAN/UNIX LAB/LAB-03$ bash grep.sh
grep -i : Ignoring case sensitivity

Welcome to Linux !
Linux is a free and opensource Operating system that is mostly used by
and database servers. Linux has also made a name for itself in PCs.
Beginners looking to experiment with Linux can get started with friendlier linux

grep -c : count of string repetition

4

grep -w : Exact matching

Welcome to Linux !
Linux is a free and opensource Operating system that is mostly used by
and database servers. Linux has also made a name for itself in PCs.
Beginners looking to experiment with Linux can get started with friendlier linux

grep -n : string with its line of repetiton

1:Welcome to Linux !
2:Linux is a free and opensource Operating system that is mostly used by
4:and database servers. Linux has also made a name for itself in PCs.
5:Beginners looking to experiment with Linux can get started with friendlier linux
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422176-CHARAN/UNIX LAB/LAB-03$
```

### **PR.SH**

```
#!/bin/bash
echo -e "pr text1.txt OUTPUT:\n";
pr text2.txt;
echo -e "\npr -t text1.txt OUTPUT:\n";
pr -t text2.txt;
echo -e "\npr -d text1.txt OUTPUT:\n";
pr -d text2.txt;
echo -e "\npr -5 text1.txt OUTPUT:\n";
pr -5 text2.txt;
```

## OUTPUT:

```
student@ai-HP-ProDesk-600-G4-MT: ~/Desktop/422176-CHARAN/UNIX L
pr -t text1.txt OUTPUT:
1
2
3
4
5
6
7
8
9
10
pr -d text1.txt OUTPUT:
2024-02-14 15:24          text2.txt          Page 1
1
2
3
4
5
6
7
8
9
10
```

```
student@ai-HP-ProDesk-600-G4-MT: ~/Desktop/422176-CHARAN/UNIX L
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422176-CHARAN/UNIX LAB/LAB-03$ cat text2.txt
1
2
3
4
5
6
7
8
9
10
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422176-CHARAN/UNIX LAB/LAB-03$ bash pr.sh
pr text1.txt OUTPUT:
2024-02-14 15:24          text2.txt          Page 1
1
2
3
4
5
6
7
8
9
10
```

```
pr -5 text1.txt OUTPUT:

2024-02-14 15:24                               text2.txt                               Page 1

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

## HEAD.sh

```
#!/bin/bash
echo -e "head list1.txt OUTPUT:\n";
head list1.txt;
echo -e "\nhead -n 5 list1.txt OUTPUT:\n";
head -n 5 list1.txt;
echo -e "\nhead -c 50 list1.txt OUTPUT:\n";
head -c 50 list1.txt;
echo -e "\nhead -v list1.txt OUTPUT:\n";
head -v list1.txt;
echo -e "\nhead list1.txt text2.txt OUTPUT:\n";
head list1.txt text2.txt;
echo -e "\nhead list1.txt > name.txt OUTPUT:\n";
head list1.txt > name.txt;
```

## OUTPUT:

```
head -c 50 list1.txt OUTPUT:
Kota
Venkata
Venkata
Charan
Charan
Charan
Teja
Tej
head -v list1.txt OUTPUT:
==> list1.txt <==
Kota
Venkata
Venkata
Charan
Charan
Charan
Teja
Teja
Teja
Teja
head list1.txt text2.txt OUTPUT:
```

```
Activities Terminal Feb 14 3:40 PM
student@ai-HP-ProDesk-600-G4-MT: ~/Desktop/422176-CHARAN/UNIX LAB/LAB-03
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422176-CHARAN/UNIX LAB/LAB-03$ cat list1.txt
Kota
Venkata
Venkata
Charan
Charan
Charan
Teja
Teja
Teja
Teja
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422176-CHARAN/UNIX LAB/LAB-03$ bash head.sh
head list1.txt OUTPUT:
Kota
Venkata
Venkata
Charan
Charan
Charan
Teja
Teja
Teja
Teja

head -n list1.txt OUTPUT:
Kota
Venkata
Venkata
Charan
Charan

head list1.txt text2.txt OUTPUT:
==> list1.txt <==
Kota
Venkata
Venkata
Charan
Charan
Charan
Teja
Teja
Teja
Teja

==> text2.txt <==
1
2
3
4
5
6
7
8
9
10

head list1.txt > name.txt OUTPUT:
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422176-CHARAN/UNIX LAB/LAB-03$
```

## TAIL.sh

```
#!/bin/bash
echo -e "tail +5 list1.txt OUTPUT:\n";
tail +5 list1.txt;
```

## OUTPUT:

```
student@ai-HP-ProDesk-600-G4-MT: ~/Desktop/422176-CHA...  
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422176-CHARAN/UNIX LAB/LAB-03$ chmod  
+x tail.sh  
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422176-CHARAN/UNIX LAB/LAB-03$ bash t  
ail.sh  
tail +5 list1.txt OUTPUT:  
  
Charan  
Charan  
Teja  
Teja  
Teja  
Teja  
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422176-CHARAN/UNIX LAB/LAB-03$
```

### Cut.sh

```
#!/bin/bash  
echo -e "cut -b 1,2,3 list1.txt OUTPUT:\n"  
cut -b 1,2,3 list1.txt  
echo -e "\ncut -b -5 list1.txt OUTPUT:\n"  
cut -b -5 list1.txt  
echo -e "\ncut -b 3-7 list1.txt OUTPUT:\n"  
cut -b 3-7 list1.txt
```

### OUTPUT:

```
student@ai-HP-ProDesk-600-G4-MT: ~/Desktop/422176-CHARAN/UNIX LAB/LAB-03
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422176-CHARAN/UNIX LAB/LAB-03$ chmod +x cut.sh
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422176-CHARAN/UNIX LAB/LAB-03$ bash cut.sh
cut -b 1,2,3 list1.txt OUTPUT:
Kot
Ven
Ven
Cha
Cha
Cha
Tej
Tej
Tej
Tej

cut -b -5 list1.txt OUTPUT:
Kota
Venka
Venka
Chara
Chara
Chara
Teja
Teja
Teja
Teja

cut -b 3-7 list1.txt OUTPUT:
ta
nkata
nkata
aran
aran
aran
ja
ja
ja
ja

student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422176-CHARAN/UNIX LAB/LAB-03$
```

## paste.sh

```
#!/bin/bash
echo -e "paste list1.txt text2.txt OUTPUT:\n";
paste list1.txt text2.txt;
echo -e "\npaste -d "|," list1.txt text2.txt text2.txt OUTPUT:\n";
paste -d "|," list1.txt text2.txt text2.txt;
echo -e "\npaste -s -d ":" list1.txt text2.txt text2.txt OUTPUT:\n";
paste -s -d ":" list1.txt text2.txt text2.txt;
```

## OUTPUT:

```
student@ai-HP-ProDesk-600-G4-MT: ~/Desktop/422176-CHARAN/UNIX LAB/LAB-03
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422176-CHARAN/UNIX LAB/LAB-03$ bash paste.sh
paste list1.txt text2.txt OUTPUT:
Kota 1
Venkata 2
Venkata 3
Charan 4
Charan 5
Charan 6
Teja 7
Teja 8
Teja 9
Teja 10
paste.sh: line 4: , list1.txt text2.txt text2.txt OUTPUT:\n: command not found
Kota|1,1
Venkata|2,2
Venkata|3,3
Charan|4,4
Charan|5,5
Charan|6,6
Teja|7,7
Teja|8,8
Teja|9,9
Teja|10,10
paste -s -d list1.txt text2.txt text2.txt OUTPUT:
Kota:Venkata:Venkata:Charan:Charan:Charan:Teja:Teja:Teja:Teja
1:2:3:4:5:6:7:8:9:10
1:2:3:4:5:6:7:8:9:10
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422176-CHARAN/UNIX LAB/LAB-03$
```

## sort.sh

```
#!/bin/bash
echo -e "sort list1.txt OUTPUT:\n";
sort list1.txt;
echo -e "sort -r list1.txt OUTPUT:\n";
sort -r list1.txt;
```

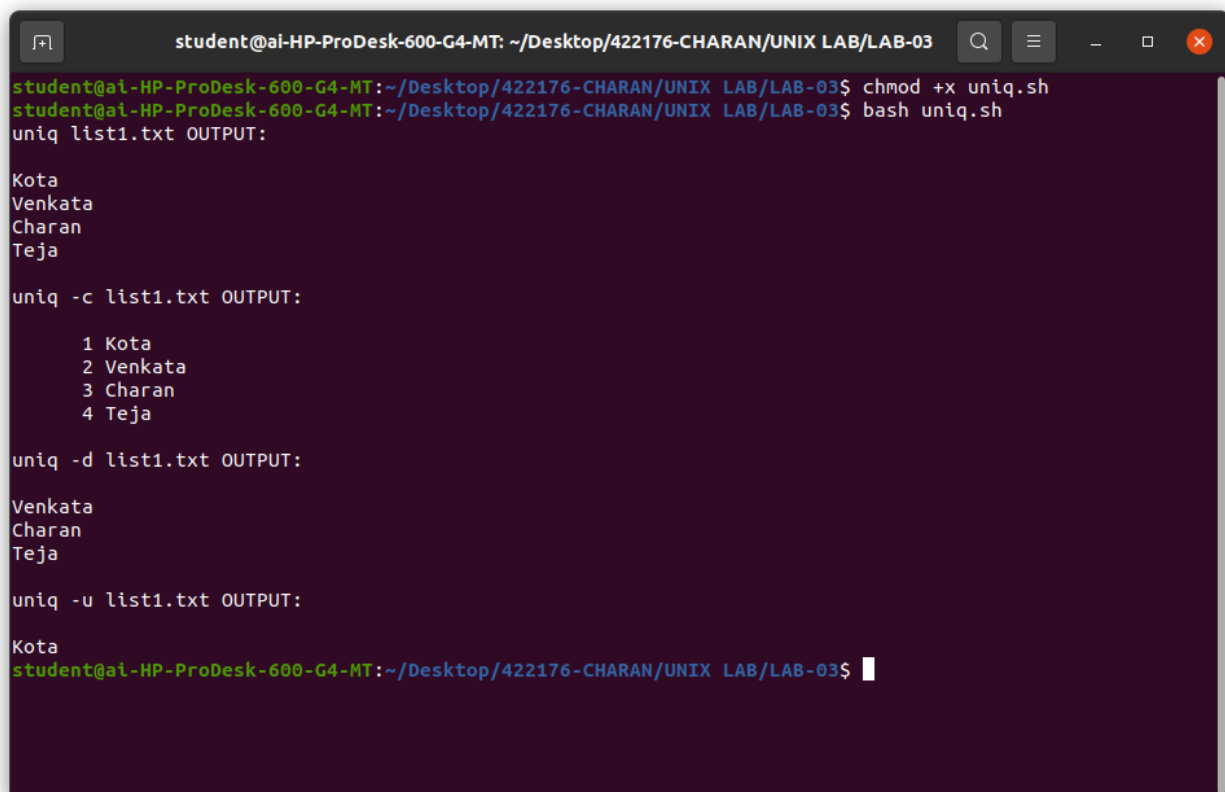
### OUTPUT:

```
Activities Terminal Feb 14 3:54 PM
student@ai-HP-ProDesk-600-G4-MT: ~/Desktop/422176-CHARAN/UNIX LAB/LAB-03
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422176-CHARAN/UNIX LAB/LAB-03$ chmod +x sort.sh
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422176-CHARAN/UNIX LAB/LAB-03$ bash sort.sh
sort list1.txt OUTPUT:
Charan
Charan
Charan
Kota
Teja
Teja
Teja
Teja
Venkata
Venkata
sort -r list1.txt OUTPUT:
Venkata
Venkata
Teja
Teja
Teja
Teja
Kota
Charan
Charan
Charan
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422176-CHARAN/UNIX LAB/LAB-03$
```

## uniq.sh

```
#!/bin/bash
echo -e "uniq list1.txt OUTPUT:\n";
uniq list1.txt;
echo -e "\nuniq -c list1.txt OUTPUT:\n";
uniq -c list1.txt;
echo -e "\nuniq -d list1.txt OUTPUT:\n";
uniq -d list1.txt;
echo -e "\nuniq -u list1.txt OUTPUT:\n";
uniq -u list1.txt;
```

## OUTPUT:

A terminal window titled 'student@ai-HP-ProDesk-600-G4-MT: ~/Desktop/422176-CHARAN/UNIX LAB/LAB-03'. The terminal shows the execution of a script named 'uniq.sh'. The first command is 'chmod +x uniq.sh'. The second command is 'bash uniq.sh'. The script then runs 'uniq list1.txt OUTPUT:', displaying the output: 'Kota', 'Venkata', 'Charan', 'Teja'. The next command is 'uniq -c list1.txt OUTPUT:', displaying the output: '1 Kota', '2 Venkata', '3 Charan', '4 Teja'. The third command is 'uniq -d list1.txt OUTPUT:', displaying the output: 'Venkata', 'Charan', 'Teja'. The final command is 'uniq -u list1.txt OUTPUT:', displaying the output: 'Kota'. The terminal ends with the prompt 'student@ai-HP-ProDesk-600-G4-MT: ~/Desktop/422176-CHARAN/UNIX LAB/LAB-03\$'.

```
student@ai-HP-ProDesk-600-G4-MT: ~/Desktop/422176-CHARAN/UNIX LAB/LAB-03$ chmod +x uniq.sh
student@ai-HP-ProDesk-600-G4-MT: ~/Desktop/422176-CHARAN/UNIX LAB/LAB-03$ bash uniq.sh
uniq list1.txt OUTPUT:

Kota
Venkata
Charan
Teja

uniq -c list1.txt OUTPUT:

 1 Kota
 2 Venkata
 3 Charan
 4 Teja

uniq -d list1.txt OUTPUT:

Venkata
Charan
Teja

uniq -u list1.txt OUTPUT:

Kota
student@ai-HP-ProDesk-600-G4-MT: ~/Desktop/422176-CHARAN/UNIX LAB/LAB-03$
```

## tr.sh

```
#!/bin/bash
echo -e "cat list1.txt | tr [a-z] [A-Z] OUTPUT:\n";
cat list1.txt | tr [a-z] [A-Z];
echo -e "\necho "Hello World!" | tr -d -o OUPUT:\n";
echo "Hello World!" | tr -d -o;
echo -e "\necho "My Roll no : 422176" | tr -d [:digit:]\n";
echo "My Roll no : 422176" | tr -d [:digit:];
```

## OUTPUT:



```
student@ai-HP-ProDesk-600-G4-MT: ~/Desktop/422176-CHARAN/UNIX LAB/LAB-03
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422176-CHARAN/UNIX LAB/LAB-03$ bash tr.sh
cat list1.txt | tr [a-z] [A-Z] OUTPUT:
KOTA
VENKATA
VENKATA
CHARAN
CHARAN
CHARAN
TEJA
TEJA
TEJA
TEJA

echo Hello World! | tr -d -o OUPUT:
tr: invalid option -- 'o'
Try 'tr --help' for more information.

echo My Roll no : 422176 | tr -d [:digit:]

My Roll no :
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422176-CHARAN/UNIX LAB/LAB-03$
```