

NAME : K.PARDHIVA SAI BHAGAVAN

ROLL NO : 422164

SEC : A

TITLE : UNIX LAB TASK – WEEK _ 3

```
(base) student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ cat list1.txt
Virginia
Connecticut
Delaware
Georgia
Maryland
Massachusetts
New Hampshire
New Jersey
New York
North Carolina
Pennsylvania
Rhode Island
South Carolina
Atlanta
Rajahmundry
(base) student@ai-HP-ProDesk-600-G4-MT:~/Desktop$
```

```
(base) student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ cat numbers.txt
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
(base) student@ai-HP-ProDesk-600-G4-MT:~/Desktop$
```

```
(base) student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ cat out_numbers.txt
1
2
3
4
5
6
7
8
9
10
(base) student@ai-HP-ProDesk-600-G4-MT:~/Desktop$
```

```
(base) student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ cut -b 1,2,3 list1.txt
Vir
Con
Del
Geo
Mar
Mas
New
New
New
Nor
Pen
Rho
Sou
Atl
Raj
(base) student@ai-HP-ProDesk-600-G4-MT:~/Desktop$
```

```
(base) student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ cut -c 3-7 list1.txt
rgini
nnect
lawar
orgia
rylan
ssach
w Ham
w Jer
w Yor
rth C
nnsyl
ode I
uth C
lanta
jahmu
(base) student@ai-HP-ProDesk-600-G4-MT:~/Desktop$
```

```
(base) student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ cut -b -5 list1.txt
Virgi
Conne
Delaw
Georg
Maryl
Massa
New H
New J
New Y
North
Penns
Rhode
South
Atlan
Rajah
(base) student@ai-HP-ProDesk-600-G4-MT:~/Desktop$
```

```
(base) student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ grep -w "connect" list1.txt
(base) student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ grep -0 "Connecticut" list1.txt
Connecticut
(base) student@ai-HP-ProDesk-600-G4-MT:~/Desktop$
```

```
(base) student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ grep -c "Connecticut" list1.txt
1
(base) student@ai-HP-ProDesk-600-G4-MT:~/Desktop$
```

```
(base) student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ grep -i "connect" list1.txt
Connecticut
(base) student@ai-HP-ProDesk-600-G4-MT:~/Desktop$
```

```
(base) student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ grep -n "Connecticut" list1.txt
2:Connecticut
(base) student@ai-HP-ProDesk-600-G4-MT:~/Desktop$
```

```
(base) student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ head list1.txt
Virginia
Connecticut
Delaware
Georgia
Maryland
Massachusetts
New Hampshire
New Jersey
New York
North Carolina
(base) student@ai-HP-ProDesk-600-G4-MT:~/Desktop$
```

```
(base) student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ head list1.txt numbers.txt
==> list1.txt <==
Virginia
Connecticut
Delaware
Georgia
Maryland
Massachusetts
New Hampshire
New Jersey
New York
North Carolina

==> numbers.txt <==
1
2
3
4
5
6
7
8
9
10
(base) student@ai-HP-ProDesk-600-G4-MT:~/Desktop$
```

```
(base) student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ head -c 25 list1.txt
Virginia
Connecticut
Dela(base) student@ai-HP-ProDesk-600-G4-MT:~/Desktop$
```

```
(base) student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ head -n list1.txt
head: invalid number of lines: 'list1.txt'
(base) student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ head -n 4 list1.txt
Virginia
Connecticut
Delaware
Georgia
(base) student@ai-HP-ProDesk-600-G4-MT:~/Desktop$
```

```
(base) student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ head numbers.txt
1
2
3
4
5
6
7
8
9
10
(base) student@ai-HP-ProDesk-600-G4-MT:~/Desktop$
```

```
(base) student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ head -q list1.txt
Virginia
Connecticut
Delaware
Georgia
Maryland
Massachusetts
New Hampshire
New Jersey
New York
North Carolina
(base) student@ai-HP-ProDesk-600-G4-MT:~/Desktop$
```

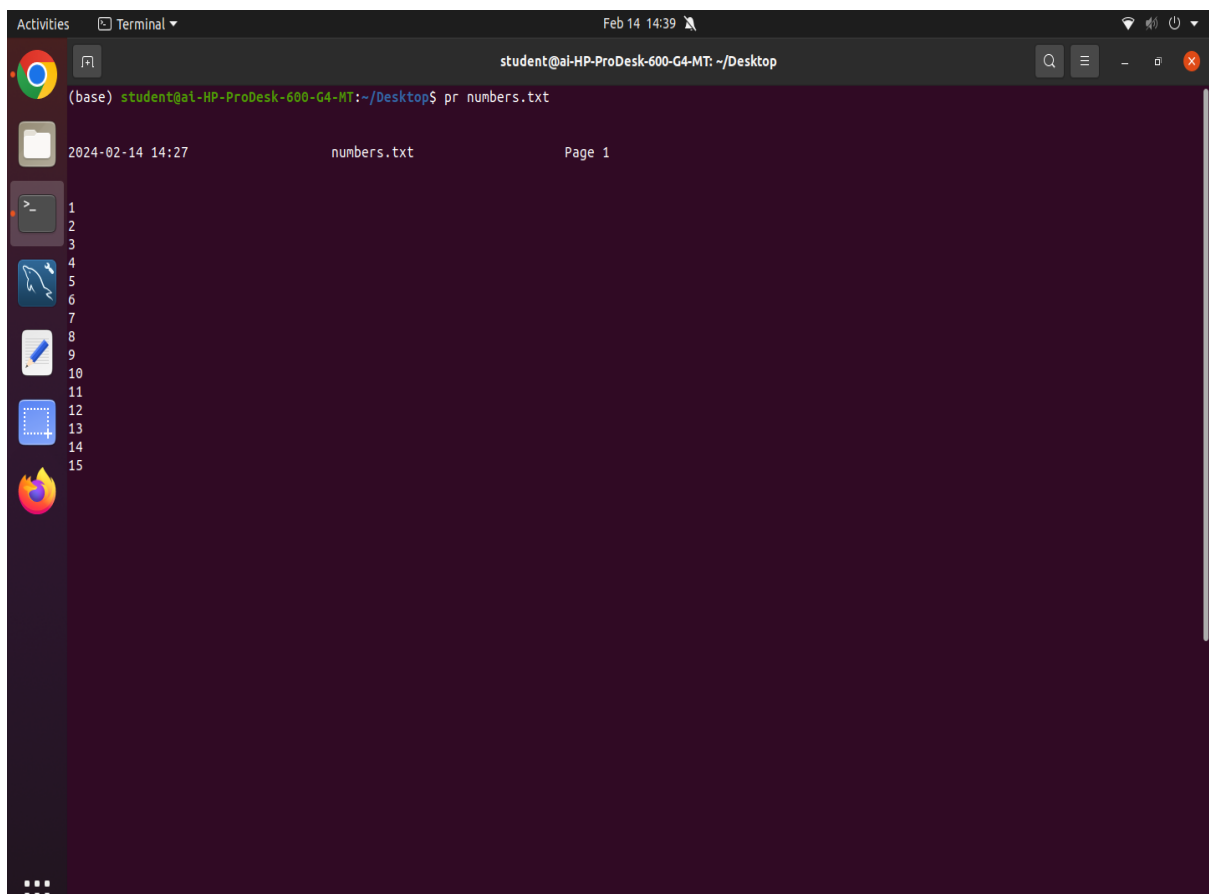
```
Dela(base) student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ head -v list1.txt
==> list1.txt <==
Virginia
Connecticut
Delaware
Georgia
Maryland
Massachusetts
New Hampshire
New Jersey
New York
North Carolina
(base) student@ai-HP-ProDesk-600-G4-MT:~/Desktop$
```

```
(base) student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ ls
622126.py          hi.txt            out_numbers.txt  stuff.java
BitStuffingClient.java list1.txt         out_num.txt      web
BitStuffingServer.java MST.cpp           question1.html   wee.py
Checksum.class     network           SPT.cpp
Checksum.java      numbers.txt       stuff.class
(base) student@ai-HP-ProDesk-600-G4-MT:~/Desktop$
```

```
(base) student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ paste numbers.txt list1.txt
1      Virginia
2      Connecticut
3      Delaware
4      Georgia
5      Maryland
6      Massachusetts
7      New Hampshire
8      New Jersey
9      New York
10     North Carolina
11     Pennsylvania
12     Rhode Island
13     South Carolina
14     Atlanta
15     Rajahmundry
(base) student@ai-HP-ProDesk-600-G4-MT:~/Desktop$
```

```
(base) student@a1-HP-ProDesk-600-G4-MT:~/Desktop$ paste -d "|" list1.txt numbers.txt numbers.txt
Virginia|1,1
Connecticut|2,2
Delaware|3,3
Georgia|4,4
Maryland|5,5
Massachusetts|6,6
New Hampshire|7,7
New Jersey|8,8
New York|9,9
North Carolina|10,10
Pennsylvania|11,11
Rhode Island|12,12
South Carolina|13,13
Atlanta|14,14
Rajahmundry|15,15
(base) student@a1-HP-ProDesk-600-G4-MT:~/Desktop$
```

```
(base) student@a1-HP-ProDesk-600-G4-MT:~/Desktop$ paste -s -d ":" list1.txt numbers.txt numbers.txt
Virginia:Connecticut:Delaware:Georgia:Maryland:Massachusetts:New Hampshire:New Jersey:New York:North Carolina:Pennsylvania:Rhode Island:South Carolina
:Atlanta:Rajahmundry
1:2:3:4:5:6:7:8:9:10:11:12:13:14:15
1:2:3:4:5:6:7:8:9:10:11:12:13:14:15
(base) student@a1-HP-ProDesk-600-G4-MT:~/Desktop$
```



The screenshot shows a Linux desktop environment. At the top, there is a terminal window titled "Terminal" with the command prompt "(base) student@a1-HP-ProDesk-600-G4-MT:~/Desktop\$ pr numbers.txt". Below the terminal, a file viewer window is open, displaying the contents of "numbers.txt". The file viewer shows a list of numbers from 1 to 15, with a page number "Page 1" at the bottom right. The desktop background is dark, and there are several application icons on the left side, including a web browser, a file manager, and a terminal.

```
Activities Terminal Feb 14 14:39 student@a1-HP-ProDesk-600-G4-MT: ~/Desktop
(base) student@a1-HP-ProDesk-600-G4-MT:~/Desktop$ pr numbers.txt
2024-02-14 14:27 numbers.txt Page 1
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
```

```
(base) student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ pr -3 numbers.txt
```

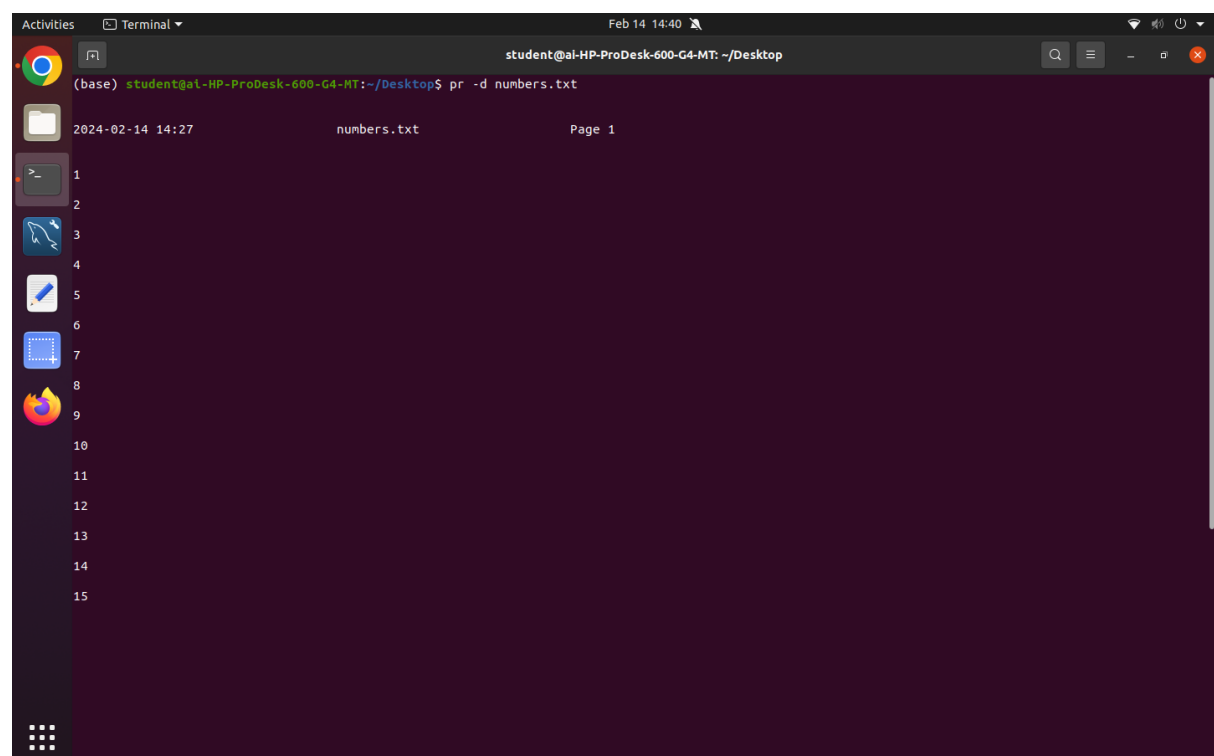
```
2024-02-14 14:27                                numbers.txt                                Page 1
```

| | | |
|---|----|----|
| 1 | 6 | 11 |
| 2 | 7 | 12 |
| 3 | 8 | 13 |
| 4 | 9 | 14 |
| 5 | 10 | 15 |

```
(base) student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ pr -3 list1.txt
```

```
2024-02-14 14:29                                list1.txt                                Page 1
```

| | | |
|-------------|----------------|----------------|
| Virginia | Massachusetts | Pennsylvania |
| Connecticut | New Hampshire | Rhode Island |
| Delaware | New Jersey | South Carolina |
| Georgia | New York | Atlanta |
| Maryland | North Carolina | Rajahmundry |



```
Activities Terminal Feb 14 14:39 student@ai-HP-ProDesk-600-G4-MT: ~/Desktop
(base) student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ pr -t numbers.txt
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
(base) student@ai-HP-ProDesk-600-G4-MT:~/Desktop$
```

```
(base) student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ pr --version
pr (GNU coreutils) 8.30
Copyright (C) 2018 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 Pete TerMaat and Roland Huebner.
(base) student@ai-HP-ProDesk-600-G4-MT:~/Desktop$
```

```
(base) student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ sort list1.txt
Atlanta
Connecticut
Delaware
Georgia
Maryland
Massachusetts
New Hampshire
New Jersey
New York
North Carolina
Pennsylvania
Rajahmundry
Rhode Island
South Carolina
Virginia
(base) student@ai-HP-ProDesk-600-G4-MT:~/Desktop$
```



```
(base) student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ sort -r list1.txt
Virginia
South Carolina
Rhode Island
Rajahmundry
Pennsylvania
North Carolina
New York
New Jersey
New Hampshire
Massachusetts
Maryland
Georgia
Delaware
Connecticut
Atlanta
(base) student@ai-HP-ProDesk-600-G4-MT:~/Desktop$
```

```
13
(base) student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ tail +5 out_numbers.txt
5
6
7
8
9
10
(base) student@ai-HP-ProDesk-600-G4-MT:~/Desktop$
```

```
(base) student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ tail numbers.txt
6
7
8
9
10
11
12
13
14
15
(base) student@ai-HP-ProDesk-600-G4-MT:~/Desktop$
```

```
(base) student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ cat list1.txt | tr [a-z] [A-Z]
VIRGINIA
CONNECTICUT
DELAWARE
GEORGIA
MARYLAND
MASSACHUSETTS
NEW HAMPSHIRE
NEW JERSEY
NEW YORK
NORTH CAROLINA
PENNSYLVANIA
RHODE ISLAND
SOUTH CAROLINA
ATLANTA
RAJAHMUNDY
(base) student@ai-HP-ProDesk-600-G4-MT:~/Desktop$
```

```
(base) student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ echo "my ID is 73535" | tr -d [:digit:]
my ID is
(base) student@ai-HP-ProDesk-600-G4-MT:~/Desktop$
```

```
(base) student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ echo "Unix Lab Task for Third Week" | tr -d W
Unix Lab Task for Third eek
(base) student@ai-HP-ProDesk-600-G4-MT:~/Desktop$
```

```
1 Rajahmundry
(base) student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ uniq list1.txt
Virginia
Connecticut
Delaware
Georgia
Maryland
Massachusetts
New Hampshire
New Jersey
New York
North Carolina
Pennsylvania
Rhode Island
South Carolina
Atlanta
Rajahmundry
(base) student@ai-HP-ProDesk-600-G4-MT:~/Desktop$
```

```
(base) student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ uniq -c list1.txt
1 Virginia
1 Connecticut
1 Delaware
1 Georgia
1 Maryland
1 Massachusetts
1 New Hampshire
1 New Jersey
1 New York
1 North Carolina
1 Pennsylvania
1 Rhode Island
1 South Carolina
1 Atlanta
1 Rajahmundry
(base) student@ai-HP-ProDesk-600-G4-MT:~/Desktop$
```

```
(base) student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ uniq -u list1.txt
Virginia
Connecticut
Delaware
Georgia
Maryland
Massachusetts
New Hampshire
New Jersey
New York
North Carolina
Pennsylvania
Rhode Island
South Carolina
Atlanta
Rajahmundry
(base) student@ai-HP-ProDesk-600-G4-MT:~/Desktop$
```