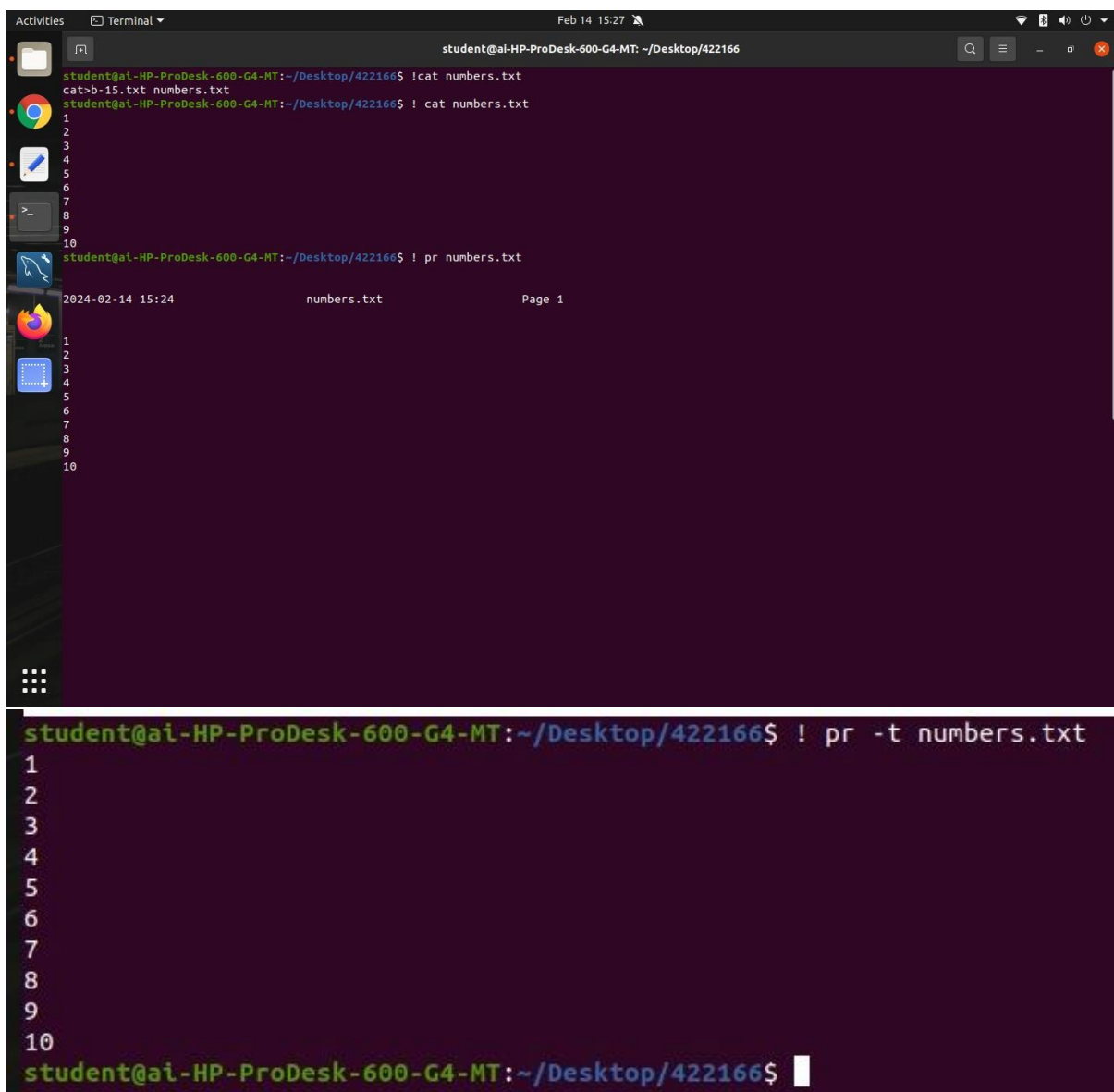


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Roll No: 422166

Section: A

Write shell script for searching for various pattern using grep, pr, head, tail, cut, sort, uniq and tr



The screenshot shows a terminal window with the following commands and output:

```
student@ai-HP-ProDesk-600-G4-MT: ~/Desktop/422166
!cat numbers.txt
cat>b-15.txt numbers.txt
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422166$ ! cat numbers.txt
1
2
3
4
5
6
7
8
9
10
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422166$ ! pr numbers.txt
2024-02-14 15:24          numbers.txt          Page 1
1
2
3
4
5
6
7
8
9
10
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422166$ ! pr -t numbers.txt
1
2
3
4
5
6
7
8
9
10
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422166$
```

```
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422166$ ! pr -d numbers.txt
```

```
2024-02-14 15:24
```

```
numbers.txt
```

```
Page 1
```

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

```
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422166$ ! 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.
```

```
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422166$ ! pr -3 numbers.txt
```

```
2024-02-14 15:24
```

```
numbers.txt
```

```
Page 1
```

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

```
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422166$ ! cat list.txt
```

```
gdfgfh
gdgrh
gfhfh
ruytyj
tryuwy
weywry
rtyry
weywe45y
3y45u6
fshgfr
```

```
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422166$ ! head list.txt
gdfgfh
gdgrh
gfhfh
ruytyj
tryuwy
weywry
rtyry
weywe45y
3y45u6
fshgfr
```

```
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422166$ ! head -n 2 list.txt
gdfgfh
gdgrh
```

```
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422166$ ! head -c 20 list.txt
gdfgfh
gdgrh
gfhfh
```

```
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422166$ ! head -v list.txt
==> list.txt <==
gdfgfh
gdgrh
gfhfh
ruytyj
tryuwy
weywry
rtyry
weywe45y
3y45u6
fshgfr
```

```
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422166$ ! head list.txt numbers.txt
==> list.txt <==
gdfgfh
gdgrh
gfhfh
ruytyj
tryuwy
weywry
rtyry
weywe45y
3y45u6
fshgfr
```

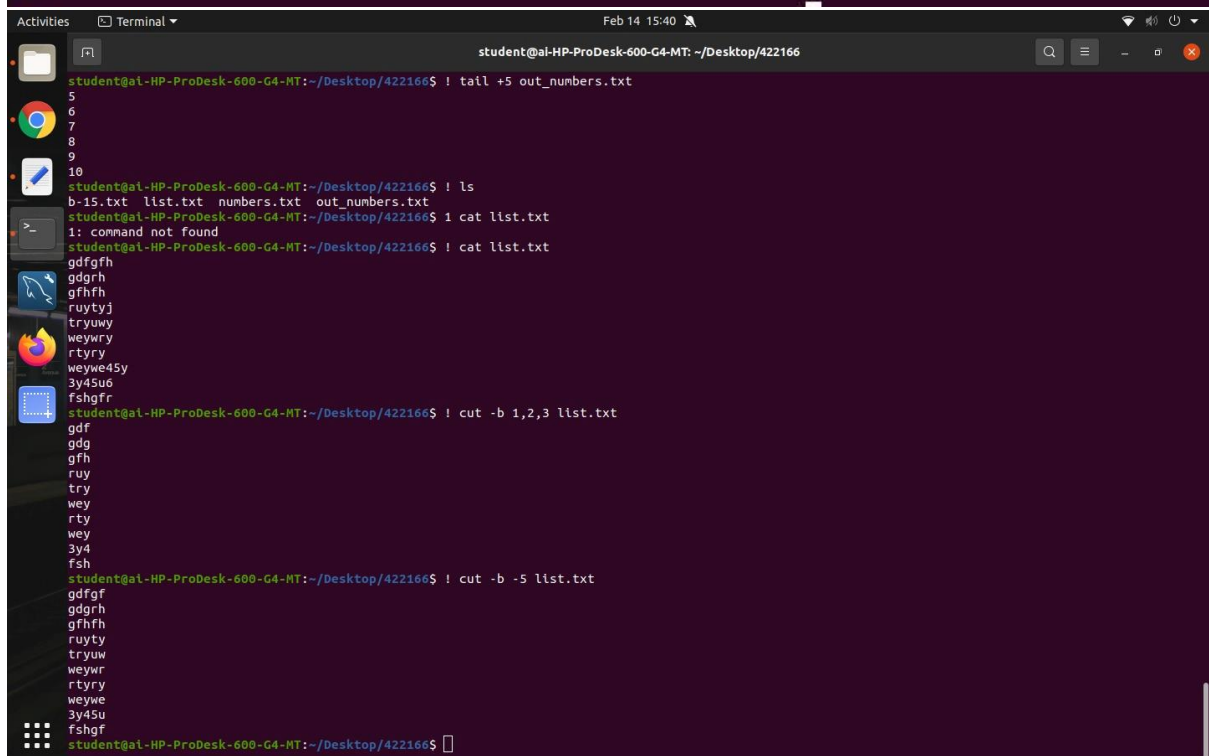
```
==> numbers.txt <==
1
2
3
4
5
6
7
8
9
10
```

```
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422166$ ! head numbers.txt > out_numbers.txt
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422166$ 1 cat out_numbers.txt
1: command not found
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422166$ ! cat out_numbers.txt
```

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

```
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422166$ ! tail +5 out_numbers.txt
```

```
5
6
7
8
9
10
```



```
Activities Terminal Feb 14 15:40 student@ai-HP-ProDesk-600-G4-MT: ~/Desktop/422166
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422166$ ! tail +5 out_numbers.txt
5
6
7
8
9
10
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422166$ ! ls
b-15.txt list.txt numbers.txt out_numbers.txt
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422166$ 1 cat list.txt
1: command not found
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422166$ ! cat list.txt
gdgfh
gdgrh
gfhfh
rutyj
tryuw
weywr
rtyry
weywe45y
3y45u6
fshgfr
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422166$ ! cut -b 1,2,3 list.txt
gdf
gdg
gfh
rui
try
wey
rty
wey
3y4
fsh
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422166$ ! cut -b -5 list.txt
gdgfh
gdgrh
gfhfh
rutyj
tryuw
weywr
rtyry
weywe
3y45u
fshgf
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422166$
```

```
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422166$ ! cut -c 3-7 list.txt
fgfh
grh
hfh
ytyj
yuwy
ywry
ryr
ywe45
45u6
hgfr
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422166$ ! paste list.txt numbers.txt
gdfgfh 1
gdgrh 2
gfhfh 3
ruytyj 4
tryuwy 5
weywry 6
rtyry 7
weywe45y 8
3y45u6 9
fshgfr 10
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422166$ ! paste -d "|" list.txt numbers.txt numbers.txt
gdfgfh|1,1
gdgrh|2,2
gfhfh|3,3
ruytyj|4,4
tryuwy|5,5
weywry|6,6
rtyry|7,7
weywe45y|8,8
3y45u6|9,9
fshgfr|10,10
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422166$ ! paste -s -d ":" list.txt numbers.txt numbers.txt
gdfgfh:gdgrh:gfhfh:ruytyj:tryuwy:weywry:rtyry:weywe45y:3y45u6:fshgfr
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/422166$ ! sort list.txt
3y45u6
fshgfr
gdfgfh
gdgrh
gfhfh
rtyry
ruytyj
tryuwy
weywe45y
weywry
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422166$ ! cat list.txt
gdfgfh
gdgrh
gfhfh
ruytyj
tryuwy
weywry
rtyry
weywe45y
3y45u6
fshgfr
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422166$ ! sort -r list.txt
weywry
weywe45y
tryuwy
ruytyj
rtyry
gfhfh
gdgrh
gdfgfh
fshgfr
3y45u6
```

```
Activities Terminal Feb 14 15:46 student@ai-HP-ProDesk-600-G4-MT: ~/Desktop/422166

gdfgfh
gdgrh
gfhfh
ruytyj
tryuwy
weywry
rtyry
weywe45y
3y45u6
fshgfr
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422166$ ! uniq list.txt
gdfgfh
gdgrh
gfhfh
ruytyj
tryuwy
weywry
rtyry
weywe45y
3y45u6
fshgfr
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422166$ ! uniq -c list.txt
1 gdfgfh
1 gdgrh
1 gfhfh
1 ruytyj
1 tryuwy
1 weywry
1 rtyry
1 weywe45y
1 3y45u6
1 fshgfr
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422166$ ! uniq -d list.txt
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422166$ ! uniq -u list.txt
gdfgfh
gdgrh
gfhfh
ruytyj
tryuwy
weywry
rtyry
weywe45y
3y45u6
fshgfr
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422166$ ! uniq -d list.txt
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422166$ ! uniq -u list.txt
gdfgfh
gdgrh
gfhfh
ruytyj
tryuwy
weywry
rtyry
weywe45y
3y45u6
fshgfr
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422166$ ! ls
b-15.txt list.txt numbers.txt out_numbers.txt
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422166$ ! cat list.txt
gdfgfh
gdgrh
gfhfh
ruytyj
tryuwy
weywry
rtyry
weywe45y
3y45u6
fshgfr
```



```
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422166$ ! cat list.txt | tr [a-z] [A-Z]
GDFGFH
GDGRH
GFHFH
RUYTYJ
TRYUWY
WEYWRY
RTYRY
WEYWE45Y
3Y45U6
FSHGFR
```

```
Activities Terminal Feb 14 15:56 student@ai-HP-ProDesk-600-G4-MT: ~/Desktop/422166
TRYUWY
WEYWRY
RTYRY
WEYWE45Y
3Y45U6
FSHGFR
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422166$ ! echo "welcome to geeksforgeeks" | tr -d w
elcome to geeksforgeeks
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422166$ ! echo "my ID is 73535" | tr -d [:digit:]
!: command not found
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422166$ ! echo "my ID is 73535" | tr -d [:digit:]
my ID is
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422166$ ! echo "welcome to geeksforgeeks" | tr -d w
elcome to geeksforgeeks
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422166$ ! echo "my ID is 73535" | tr -d [:digit:]
my ID is
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422166$ ! cat list.txt
gdfgfh
gdgrh
gfhhf
ruytyj
tryuwy
weywy
rtyry
weywe45y
3y45u6
fshgfr
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422166$ ! grep -i "connect" list.txt
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422166$ ! grep -c "connecticut" list.txt
0
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422166$ ! grep -c "connecticut" list.txt
0
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422166$ ! grep -w "connect" list.txt
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422166$ ! grep -0 "connecticut" list.txt
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422166$ ! grep -i "connect" list.txt
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422166$ connecticut
connecticut: command not found
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422166$ ! grep -i "connect" list.txt
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422166$ ! grep -c "connecticut" list.txt
0
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422166$ ! grep -w "connect" list.txt
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422166$ ! grep -0 "connecticut" list.txt
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422166$ ! grep -n "connecticut" list.txt
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422166$ !grep --help
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422166$
```