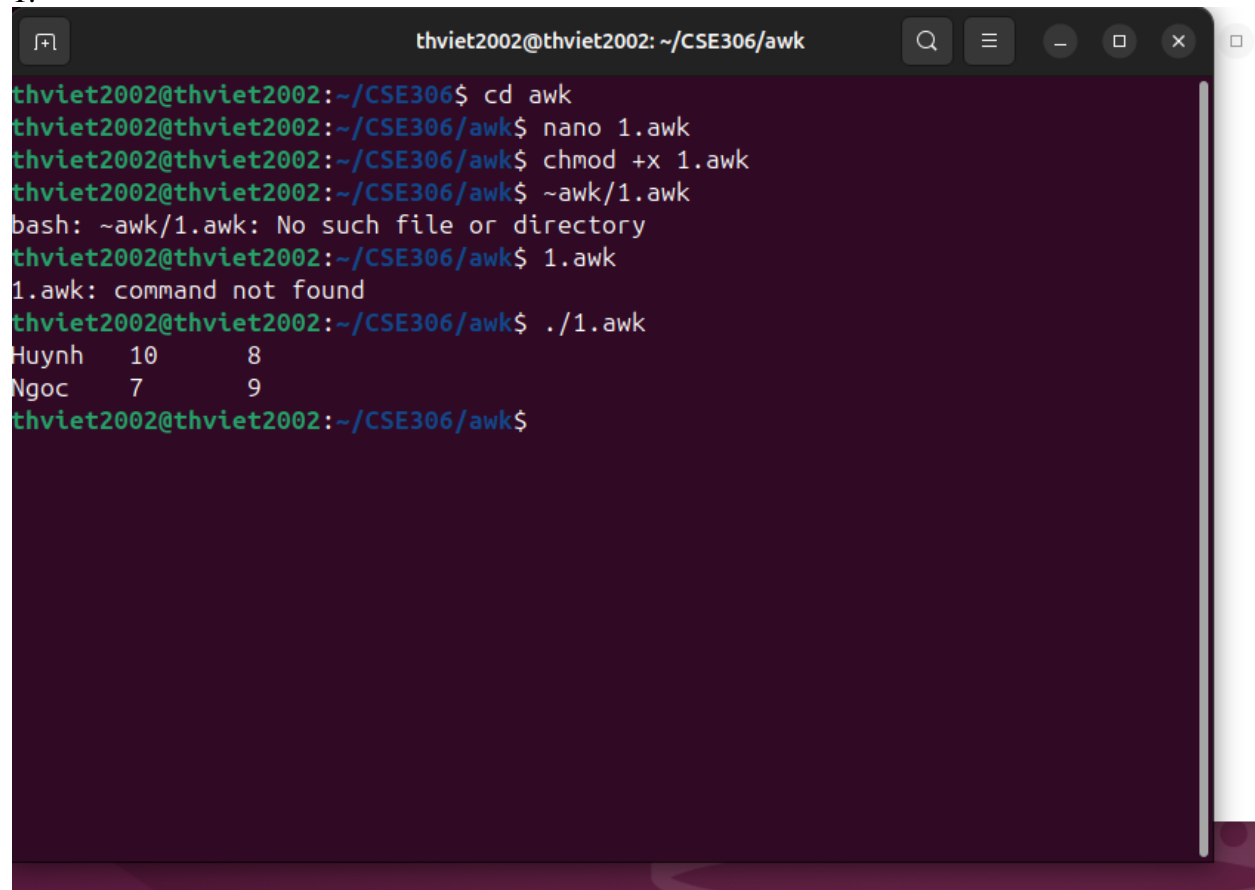
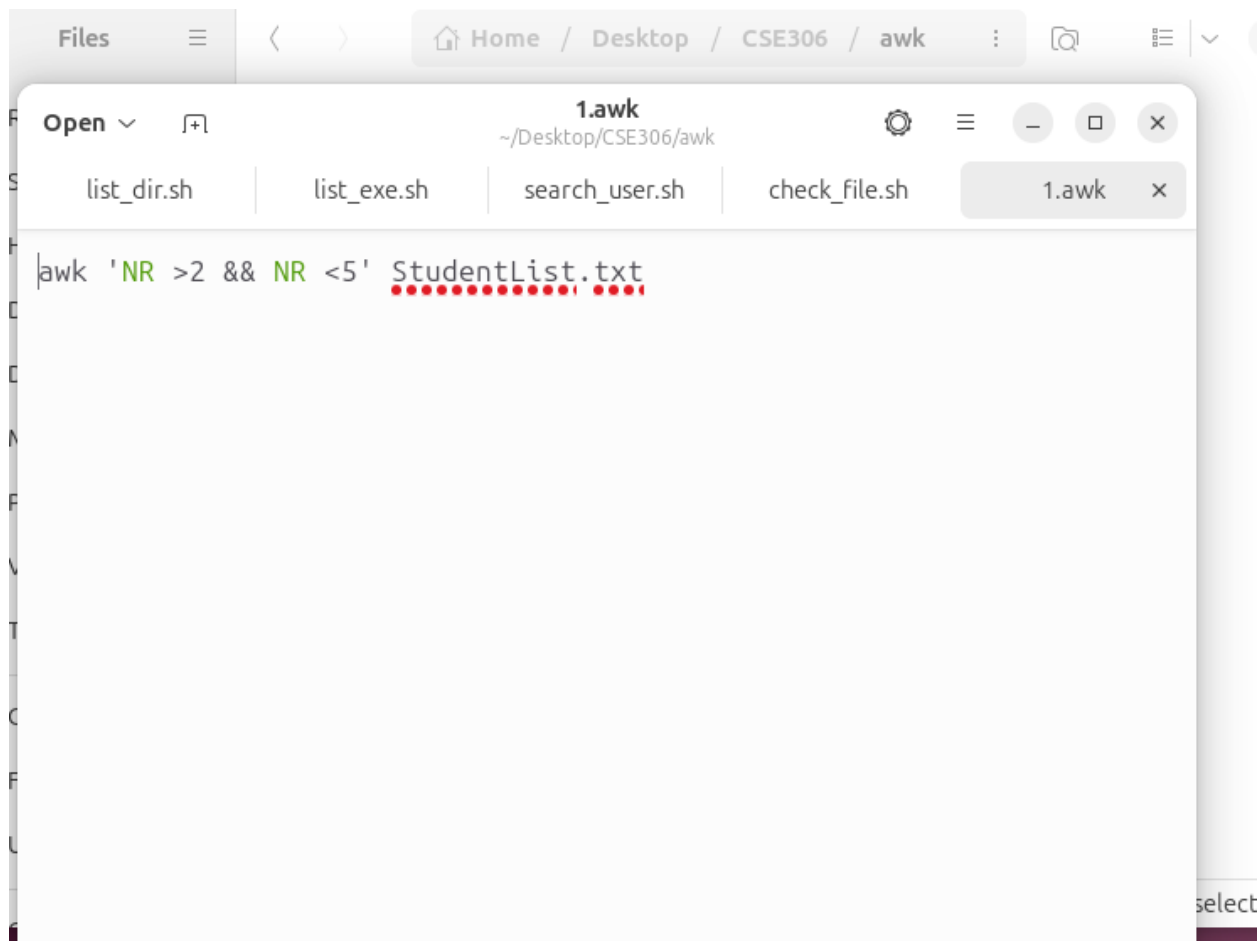


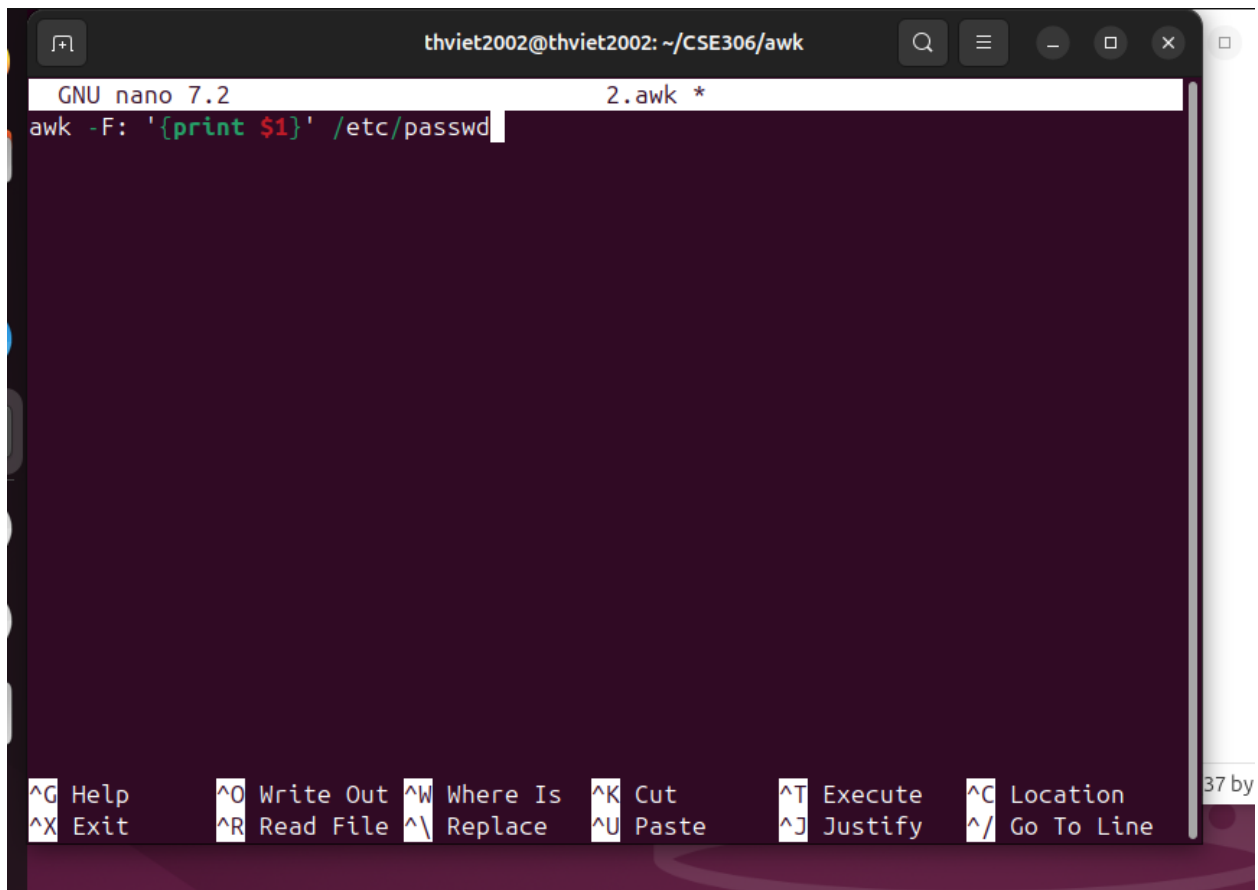
1.



```
thviet2002@thviet2002: ~/CSE306/awk
thviet2002@thviet2002:~/CSE306/awk$ cd awk
thviet2002@thviet2002:~/CSE306/awk$ nano 1.awk
thviet2002@thviet2002:~/CSE306/awk$ chmod +x 1.awk
thviet2002@thviet2002:~/CSE306/awk$ ~awk/1.awk
bash: ~awk/1.awk: No such file or directory
thviet2002@thviet2002:~/CSE306/awk$ 1.awk
1.awk: command not found
thviet2002@thviet2002:~/CSE306/awk$ ./1.awk
Huynh    10      8
Ngoc     7       9
thviet2002@thviet2002:~/CSE306/awk$
```



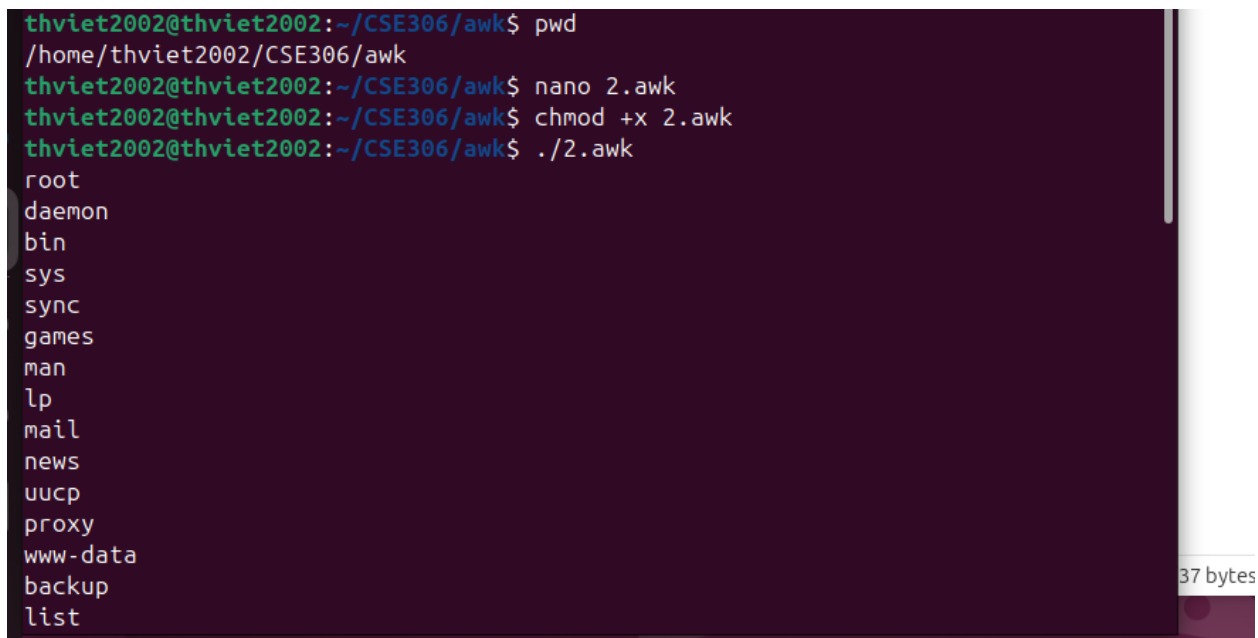
2.



```
thviet2002@thviet2002: ~/CSE306/awk
GNU nano 7.2 2.awk *
awk -F: '{print $1}' /etc/passwd
```

37 by

^G Help ^O Write Out ^W Where Is ^K Cut ^T Execute ^C Location
^X Exit ^R Read File ^\ Replace ^U Paste ^J Justify ^_ Go To Line

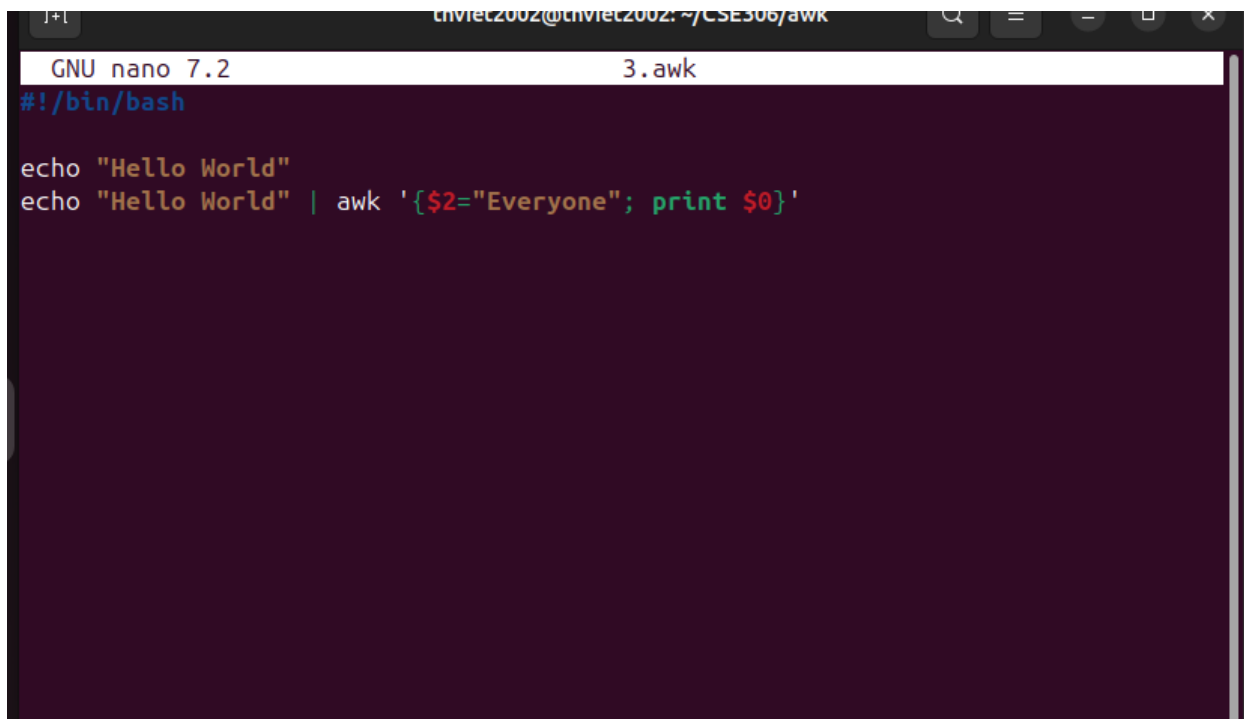


```
thviet2002@thviet2002:~/CSE306/awk$ pwd
/home/thviet2002/CSE306/awk
thviet2002@thviet2002:~/CSE306/awk$ nano 2.awk
thviet2002@thviet2002:~/CSE306/awk$ chmod +x 2.awk
thviet2002@thviet2002:~/CSE306/awk$ ./2.awk
root
daemon
bin
sys
sync
games
man
lp
mail
news
uucp
proxy
www-data
backup
list
```

37 bytes

3.

```
thviet2002@thviet2002:~$ gnome-terminal
thviet2002@thviet2002:~$ nano 3.awk
thviet2002@thviet2002:~$ chmod +x 3.awk
thviet2002@thviet2002:~$ ./3.awk
Hello World
Hello Everyone
thviet2002@thviet2002:~$
```

A screenshot of a terminal window with a nano editor open. The window title is 'thviet2002@thviet2002: ~/CSE306/awk'. The nano editor header shows 'GNU nano 7.2' and the filename '3.awk'. The editor content is as follows:

```
#!/bin/bash
echo "Hello World"
echo "Hello World" | awk '{ $2="Everyone"; print $0 }'
```

4.

```
thviet2002@thviet2002:~$ nano 3.awk
thviet2002@thviet2002:~$ nano 4.awk
thviet2002@thviet2002:~$ chmod +x 4.awk
thviet2002@thviet2002:~$ ./4.awk
root /root
daemon /usr/sbin
```

```
thviet2002@thviet2002: ~/CSE306/awk
GNU nano 7.2 4.awk
awk -F: '{print $1, $6}' /etc/passwd

[ Read 1 line ]
^G Help      ^O Write Out ^W Where Is  ^K Cut       ^T Execute   ^C Location
^X Exit      ^R Read File ^\ Replace   ^U Paste     ^J Justify   ^/ Go To Line
37 bytes)
```

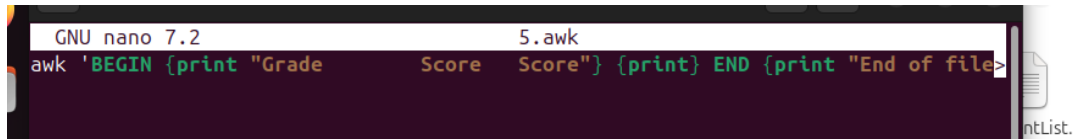
```
tss /var/lib/tpm
systemd-oom /
kernoops /
whoopsie /nonexistent
dnsmasq /var/lib/misc
avahi /run/avahi-daemon
tcpdump /nonexistent
sssd /var/lib/sss
speech-dispatcher /run/speech-dispatcher
cups-pk-helper /nonexistent
fwupd-refresh /var/lib/fwupd
saned /var/lib/saned
geoclue /var/lib/geoclue
cups-browsed /nonexistent
hplip /run/hplip
polkitd /
rtkit /proc
colord /var/lib/colord
gnome-initial-setup /run/gnome-initial-setup/
gdm /var/lib/gdm3
nm-openvpn /var/lib/openvpn/chroot
gnome-remote-desktop /var/lib/gnome-remote-desktop
thviet2002 /home/thviet2002
thviet2002@thviet2002:~/CSE306/awk$
```

5.

```

awk: line 1: syntax error at or near print
thviet2002@thviet2002:~/CSE306/awk$ nano 5.awk
thviet2002@thviet2002:~/CSE306/awk$ ./5.awk
Grade    Score    Score
Hai       6         5
Minh      7         9
Huynh     10        8
Ngoc      7         9
Ngan      4         8
Viet      10        10
End of file
thviet2002@thviet2002:~/CSE306/awk$

```



```

GNU nano 7.2 5.awk
awk 'BEGIN {print "Grade    Score    Score"} {print} END {print "End of file"}'

```

6.

```

thviet2002@thviet2002:~/CSE306/awk$ nano address.txt
thviet2002@thviet2002:~/CSE306/awk$ nano 6.awk
thviet2002@thviet2002:~/CSE306/awk$ chmod +x 6.awk
thviet2002@thviet2002:~/CSE306/awk$ ./6.awk
Person Name123 Street 0123456789
Another person321 Street 0987654321
thviet2002@thviet2002:~/CSE306/awk$ nano 6.awk
thviet2002@thviet2002:~/CSE306/awk$ ./6.awk
Person Name 123 Street 0123456789
Another person 321 Street 0987654321
thviet2002@thviet2002:~/CSE306/awk$

```

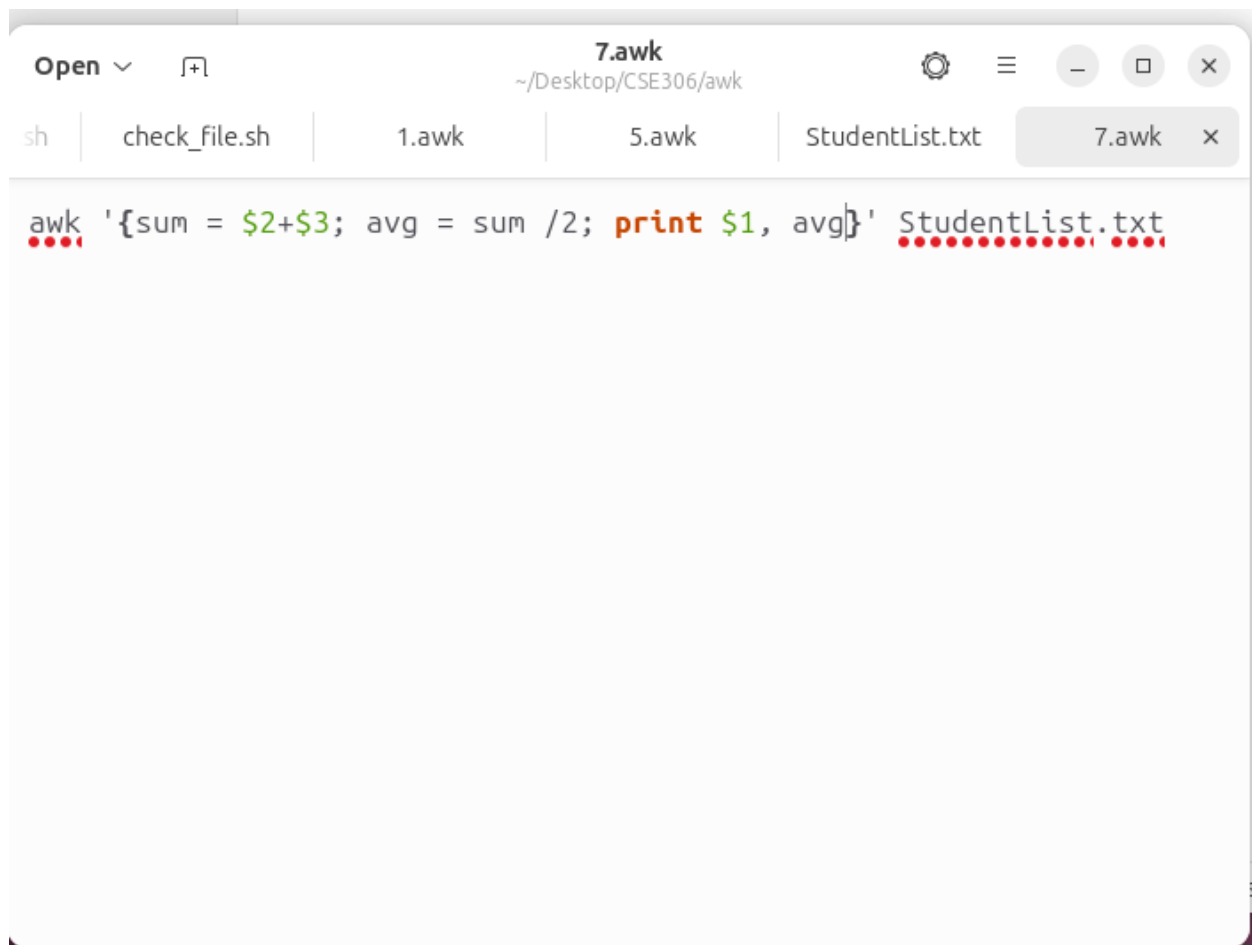
```
thviet2002@thviet2002:~$ cat address.txt
Person Name
123 Street
0123456789

Another person
321 Street
0987654321
```

```
GNU nano 7.2 6.awk
awk 'BEGIN{FS="\n"; RS=""} {print $1, $2, $3}' address.txt
```

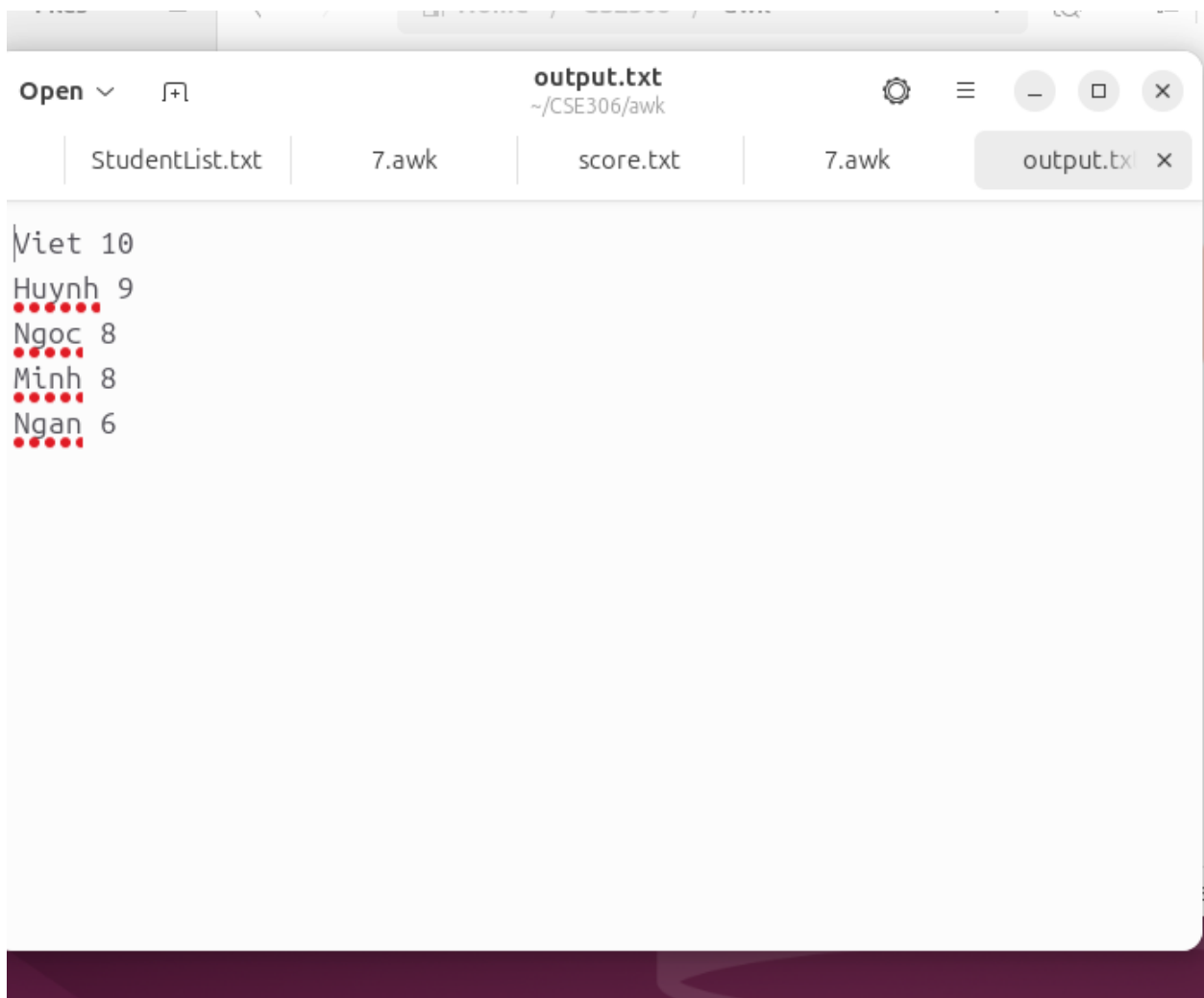
7.

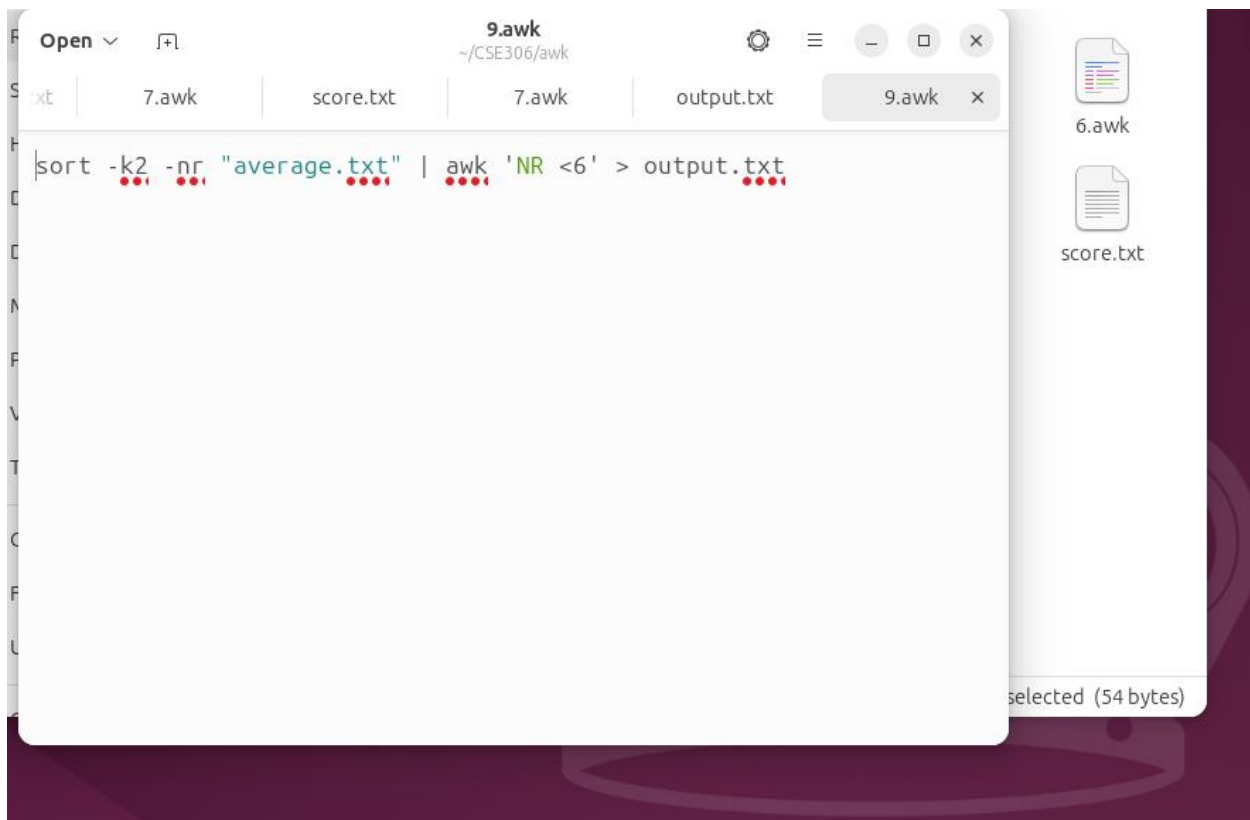
```
thviet2002@thviet2002:~/CSE306/awk$ ./7.awk
Hai 5.5
Minh 8
Huynh 9
Ngoc 8
Ngan 6
Viet 10
thviet2002@thviet2002:~/CSE306/awk$
```

The image shows a terminal window with a title bar. The title bar contains the text "7.awk" and the path "~/Desktop/CSE306/awk". Below the title bar is a tab bar with several tabs: "sh", "check_file.sh", "1.awk", "5.awk", "StudentList.txt", and "7.awk". The "7.awk" tab is currently selected. The main area of the terminal displays the following command: `awk '{sum = $2+$3; avg = sum /2; print $1, avg}' StudentList.txt`. The command is written in a monospaced font with syntax highlighting: `awk` is in red, `{` is in red, `sum =` is in green, `$2+$3` is in green, `;` is in red, `avg =` is in green, `sum /2` is in green, `;` is in red, `print` is in orange, `$1` is in green, `,` is in red, `avg` is in green, `}` is in red, and `StudentList.txt` is in red. There are also red dots at the end of the command line.

9.

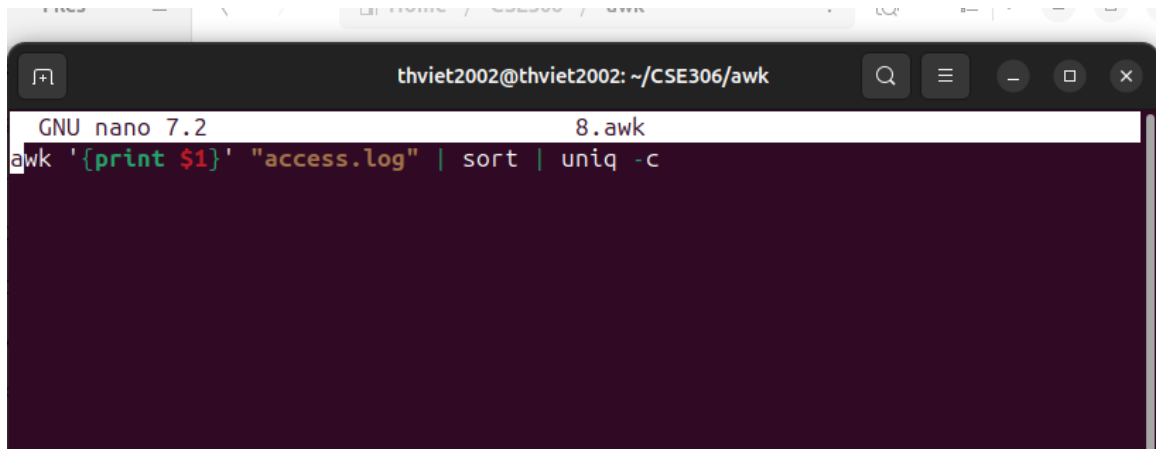




```
thviet2002@thviet2002:~/CSE306$ cd awk
thviet2002@thviet2002:~/CSE306/awk$ nano 9.awk
thviet2002@thviet2002:~/CSE306/awk$ ./9.awk
bash: ./9.awk: Permission denied
thviet2002@thviet2002:~/CSE306/awk$ chmod +x 9.awk
thviet2002@thviet2002:~/CSE306/awk$ ./9.awk
```

8.

```
1/537.36"
thviet2002@thviet2002:~/CSE306/awk$ nano 8.awk
thviet2002@thviet2002:~/CSE306/awk$ chmod +x ./8.awk
thviet2002@thviet2002:~/CSE306/awk$ ./8.awk
1 101.128.64.127
3 103.1.239.217
1 103.131.71.180
1 103.131.71.188
3 103.131.71.191
1 103.131.71.37
1 103.131.71.39
1 103.131.71.41
1 103.131.71.52
3 103.15.135.99
6 103.17.88.39
3 103.221.221.133
```



The screenshot shows a terminal window titled "thviet2002@thviet2002: ~/CSE306/awk". Inside the window, the GNU nano 7.2 editor is open, editing the file 8.awk. The editor's status bar at the bottom displays the command `awk '{print $1}' "access.log" | sort | uniq -c`. The terminal background is dark purple, and the nano editor interface is visible with its characteristic top bar and status bar.