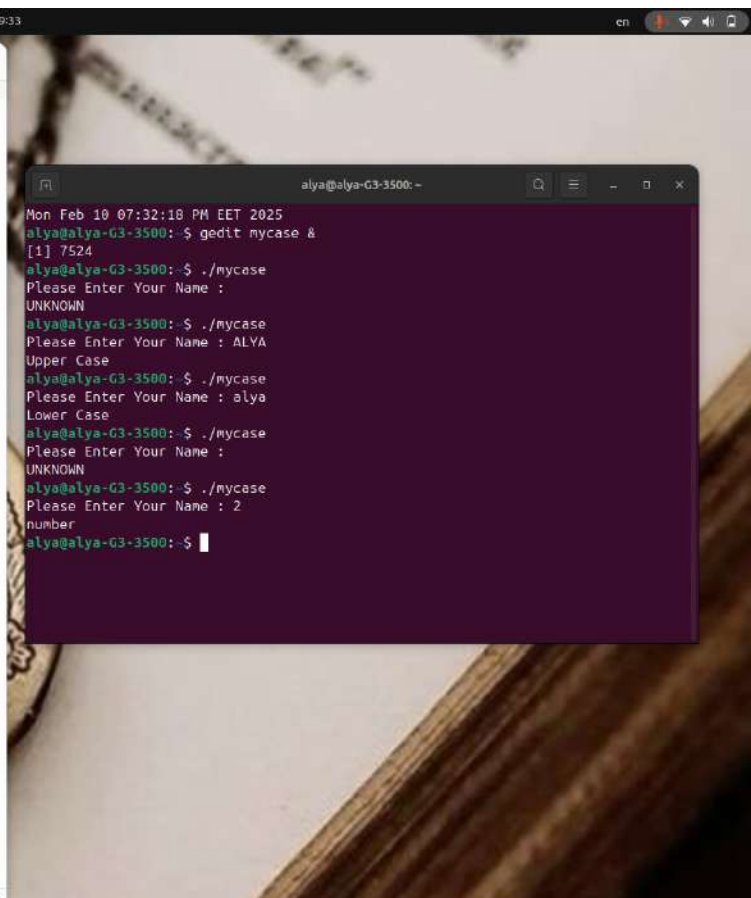
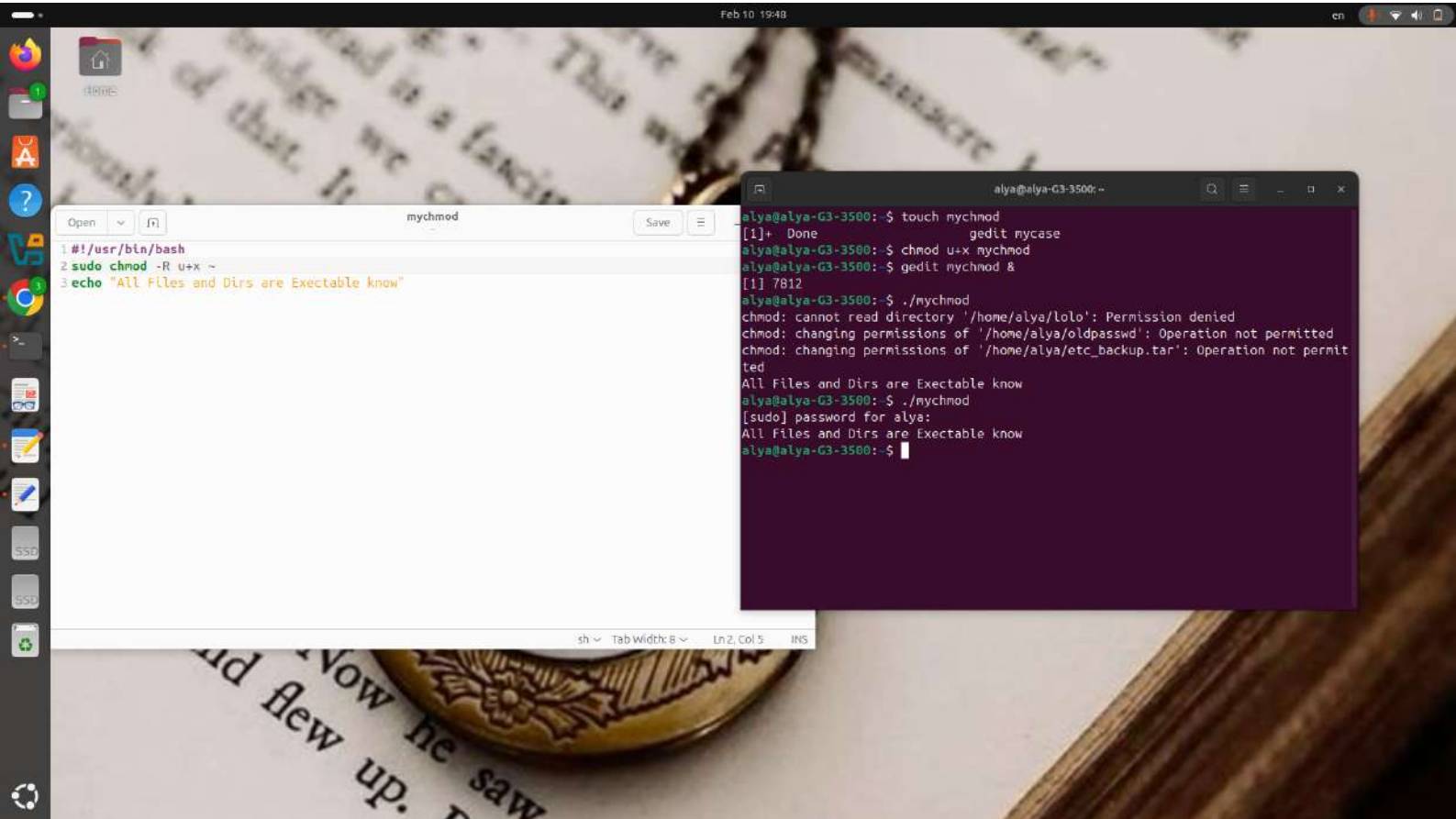


```
1#!/usr/bin/bash
2shopt -s extglob
3read -p "Please Enter Your Name : " name
4case $name in
5+([A-Z]))
6    echo Upper Case
7    ;;
8+([a-z]))
9    echo Lower Case
10   ;;
11+([0-9]))
12    echo number
13    ;;
14*)
15    echo Nothing Enter
16    ;;
17*)
18    echo UNKNOWN
19esac
```





Feb 10, 21:05

Open Save

mymail

```
1 #!/usr/bin/bash
2
3
4 SUBJECT="Important Alert!"
5 MESSAGE="ntemplate"
6
7 HOSTNAME=$(hostname)
8
9 for user in $(awk -F: '($3 == 1000 {print $1})' /etc/passwd); do
10     EMAIL=$user@HOSTNAME
11     echo "Sending email to $EMAIL"
12     mail -s "$SUBJECT" $EMAIL < "$MESSAGE"
13 done
14
15 echo "All emails sent!"
16
```

sh Tab Width: 8 Ln 13, Col 24 INS

alya@alya-G3-3500: ~

alya@alya-G3-3500: \$./mymail

Sending email to nobody@alya-G3-3500

Sending email to alya@alya-G3-3500

Sending email to islam@alya-G3-3500

All emails sent!

alya@alya-G3-3500: \$ mail

"/var/mail/alya": 3 messages 2 new 1 unread

U 1 Alya Mon Feb 10 20:27 16/528 System

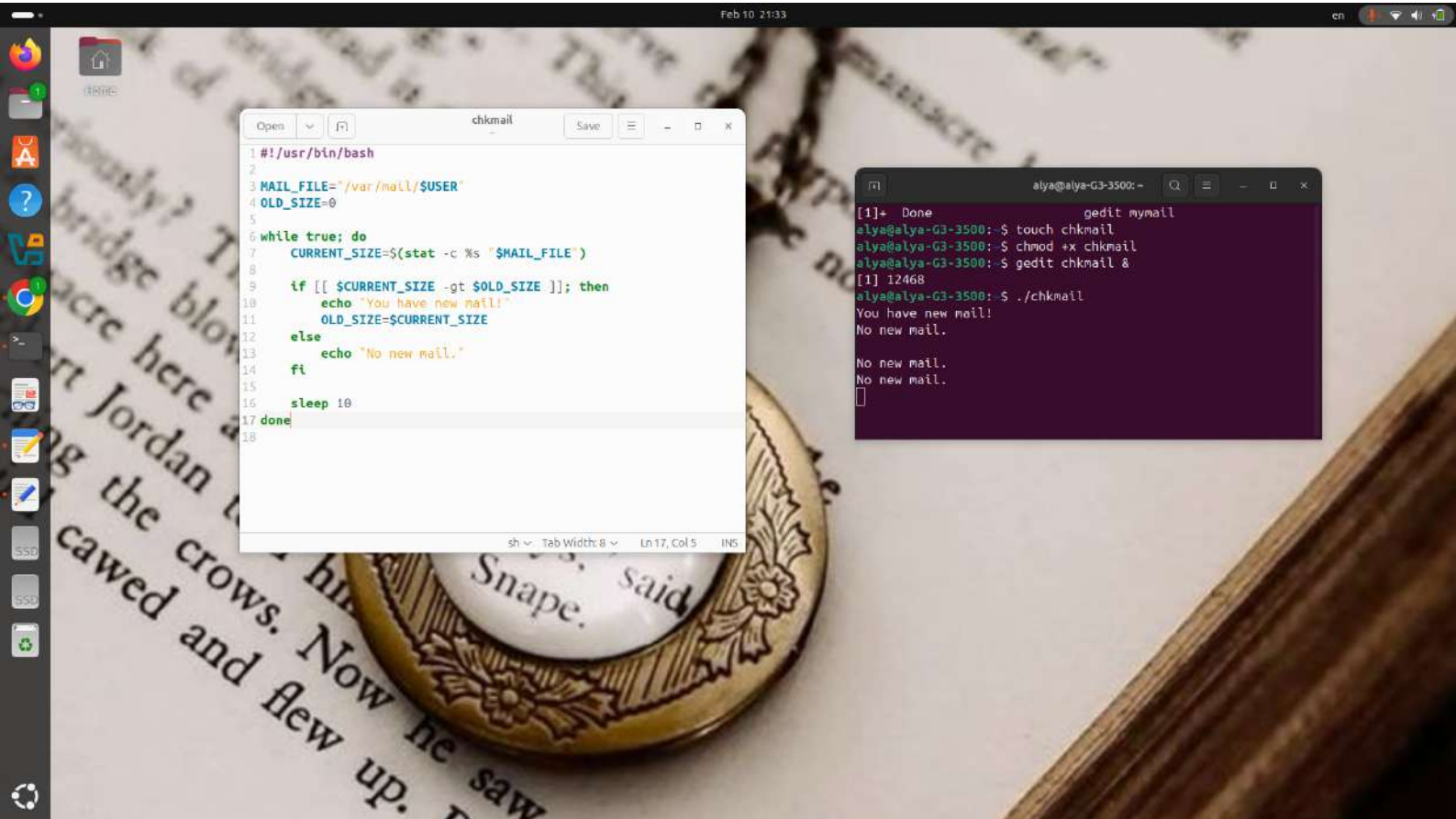
>N 2 Alya Mon Feb 10 21:05 13/462 Importa

N 3 Alya Mon Feb 10 21:05 13/462 Importa

? q

Held 3 messages in /var/mail/alya

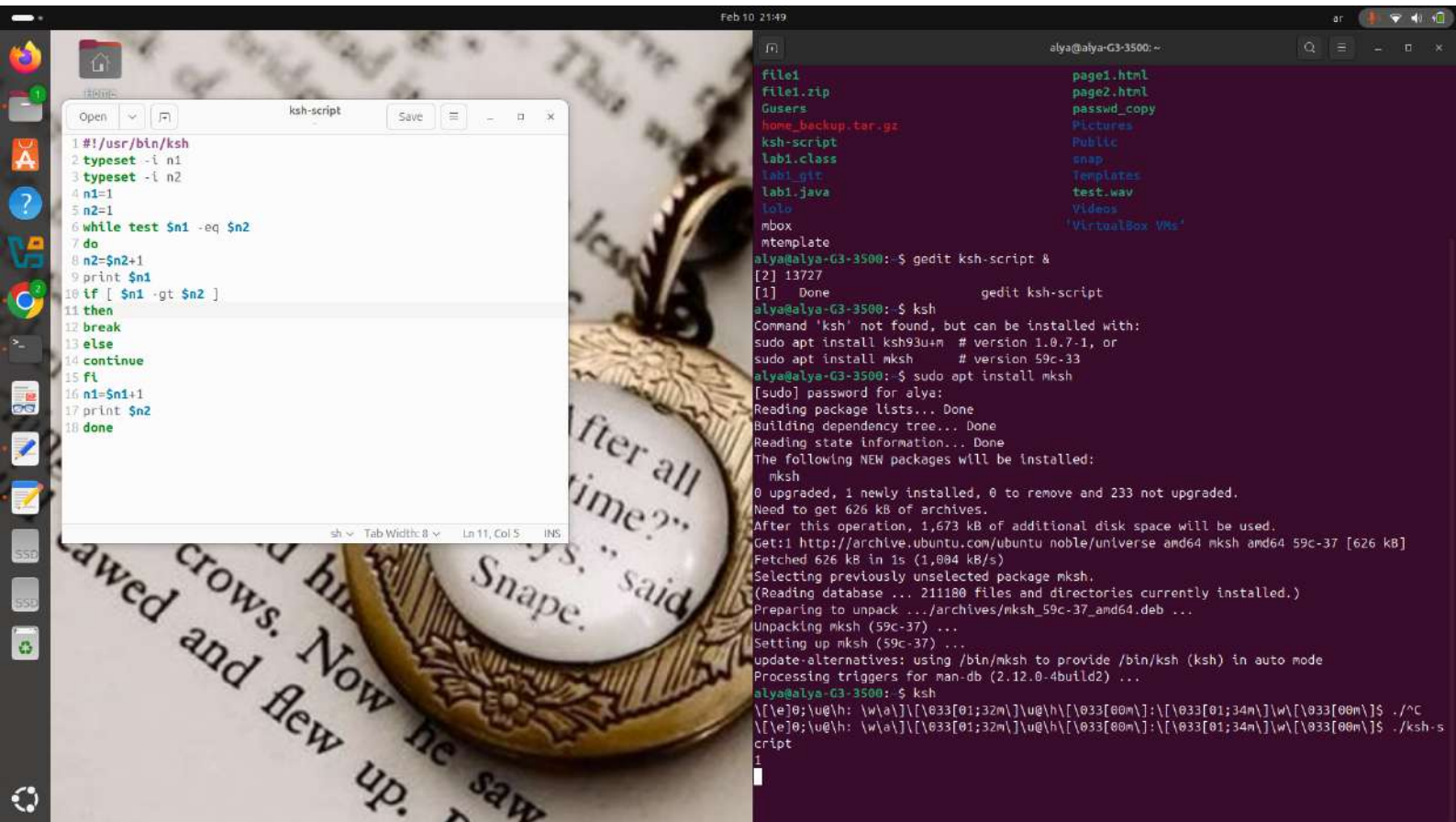
alya@alya-G3-3500: \$



```
1#!/usr/bin/bash
2
3MAIL_FILE="/var/mail/$USER"
4OLD_SIZE=0
5
6while true; do
7    CURRENT_SIZE=$(stat -c %s "$MAIL_FILE")
8
9    if [[ $CURRENT_SIZE -gt $OLD_SIZE ]]; then
10        echo "You have new mail!"
11        OLD_SIZE=$CURRENT_SIZE
12    else
13        echo "No new mail."
14    fi
15
16    sleep 10
17done
18
```

```
alya@alya-G3-3500: ~
[1]+  Done                  gedit mymail
alya@alya-G3-3500:~$ touch chkmail
alya@alya-G3-3500:~$ chmod +x chkmail
alya@alya-G3-3500:~$ gedit chkmail &
[1] 12468
alya@alya-G3-3500:~$ ./chkmail
You have new mail!
No new mail.

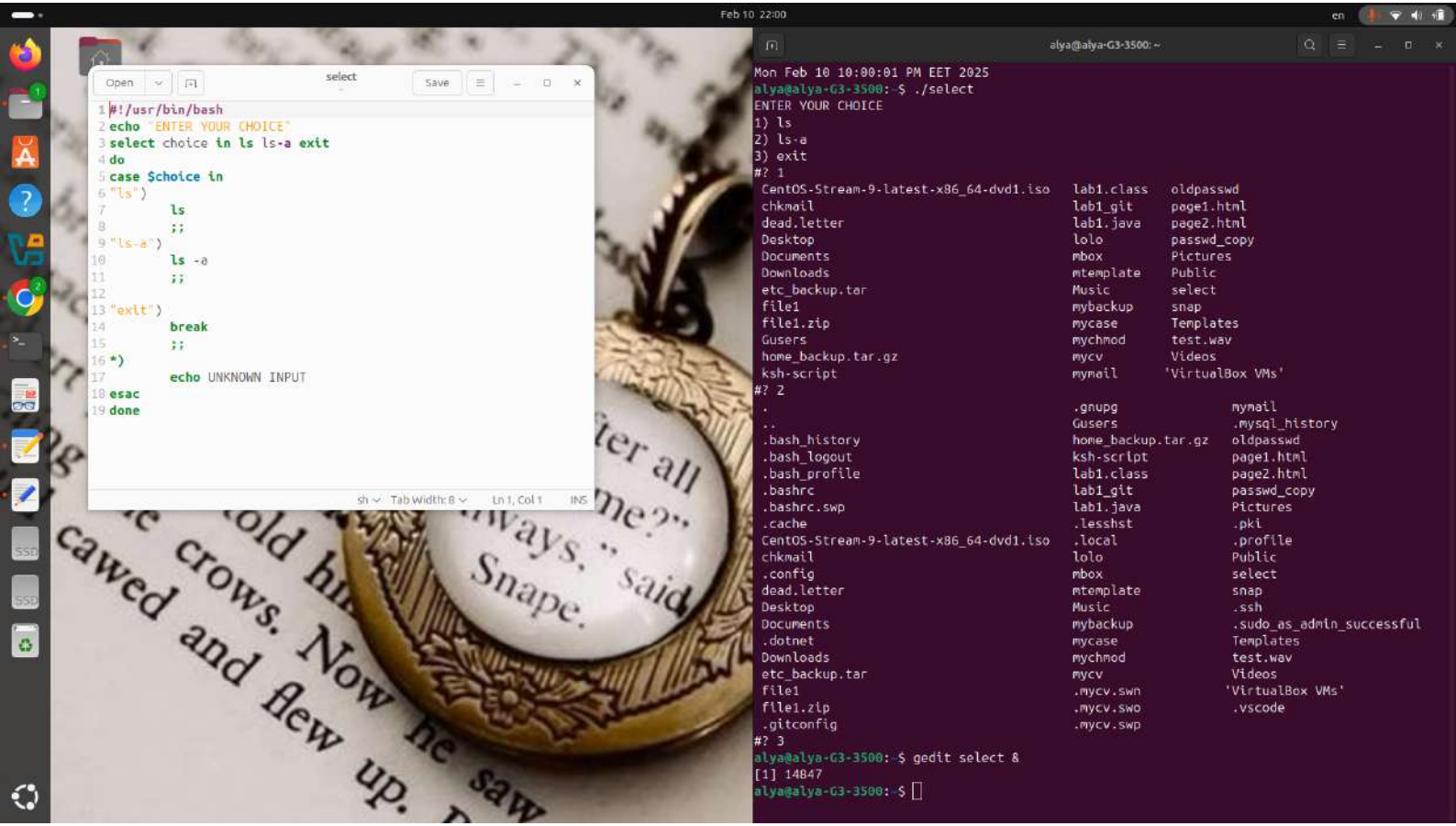
No new mail.
No new mail.
█
```



```
1 #!/usr/bin/ksh
2 typeset -i n1
3 typeset -i n2
4 n1=1
5 n2=1
6 while test $n1 -eq $n2
7 do
8 n2=$n2+1
9 print $n1
10 if [ $n1 -gt $n2 ]
11 then
12 break
13 else
14 continue
15 fi
16 n1=$n1+1
17 print $n2
18 done
```

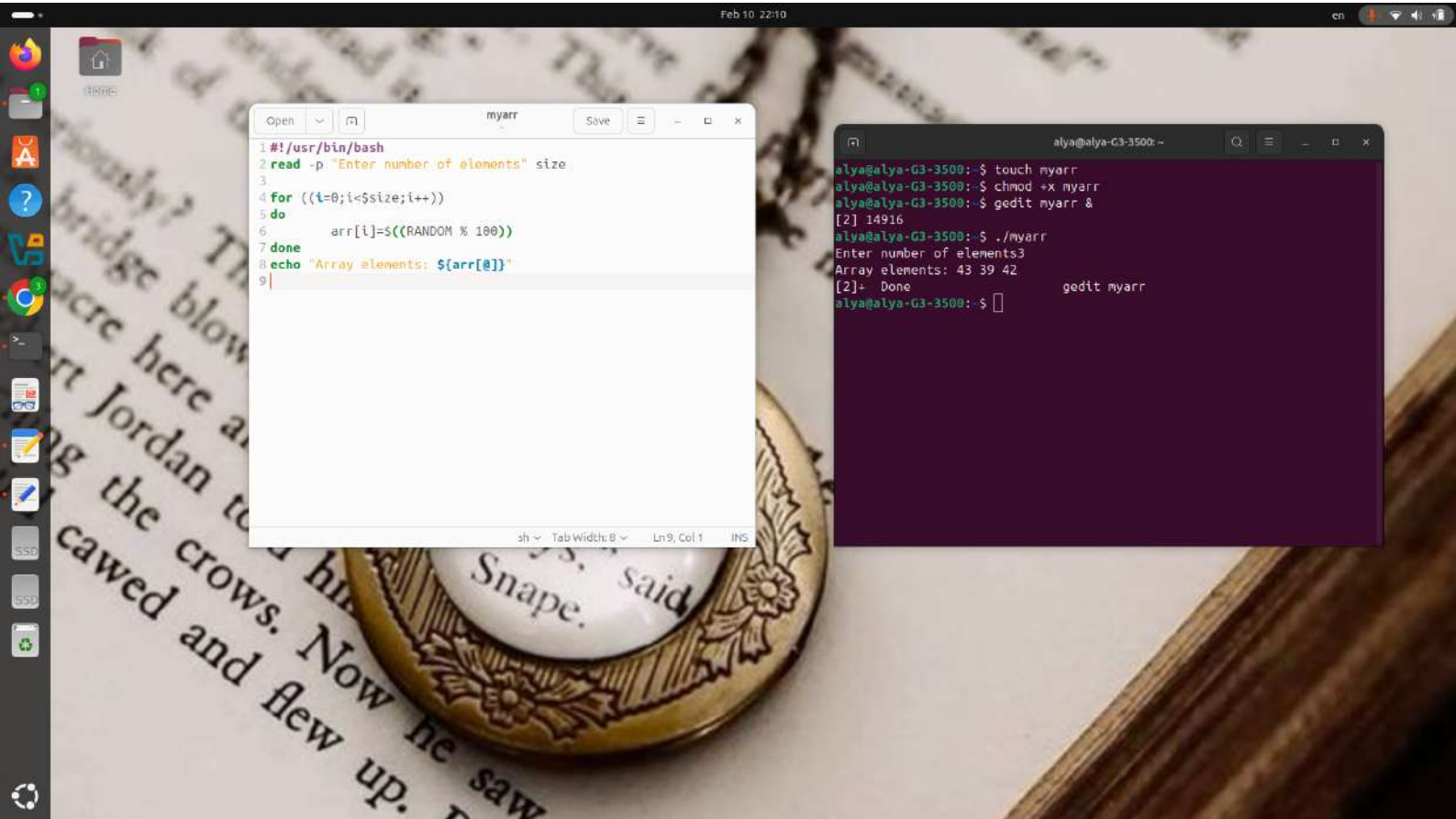
```
alya@alya-G3-3500: ~
file1                                page1.html
file1.zip                           page2.html
Gusers                              passwd_copy
home_backup.tar.gz                  Pictures
ksh-script                          Public
lab1.class                          snap
lab1.git                            Templates
lab1.java                           test.wav
lolo                                 Videos
mbox                                 'VirtualBox VMs'
mtemplate

alya@alya-G3-3500:~$ gedit ksh-script &
[2] 13727
[1] Done                                gedit ksh-script
alya@alya-G3-3500:~$ ksh
Command 'ksh' not found, but can be installed with:
sudo apt install ksh93u+m # version 1.0.7-1, or
sudo apt install mksh # version 59c-33
alya@alya-G3-3500:~$ sudo apt install mksh
[sudo] password for alya:
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following NEW packages will be installed:
mksh
0 upgraded, 1 newly installed, 0 to remove and 233 not upgraded.
Need to get 626 kB of archives.
After this operation, 1,673 kB of additional disk space will be used.
Get:1 http://archive.ubuntu.com/ubuntu noble/universe amd64 mksh amd64 59c-37 [626 kB]
Fetched 626 kB in 1s (1,004 kB/s)
Selecting previously unselected package mksh.
(Reading database ... 211180 files and directories currently installed.)
Preparing to unpack .../archives/mksh_59c-37_amd64.deb ...
Unpacking mksh (59c-37) ...
Setting up mksh (59c-37) ...
update-alternatives: using /bin/mksh to provide /bin/ksh (ksh) in auto mode
Processing triggers for man-db (2.12.0-4build2) ...
alya@alya-G3-3500:~$ ksh
\[\e]0;\u001b: \w[a]\[\033[01;32m\]\u001b\[\033[00m\]:\[\033[01;34m\]\w\[\033[00m\]$ ./^C
\[\e]0;\u001b: \w[a]\[\033[01;32m\]\u001b\[\033[00m\]:\[\033[01;34m\]\w\[\033[00m\]$ ./ksh-s
cript
1
```

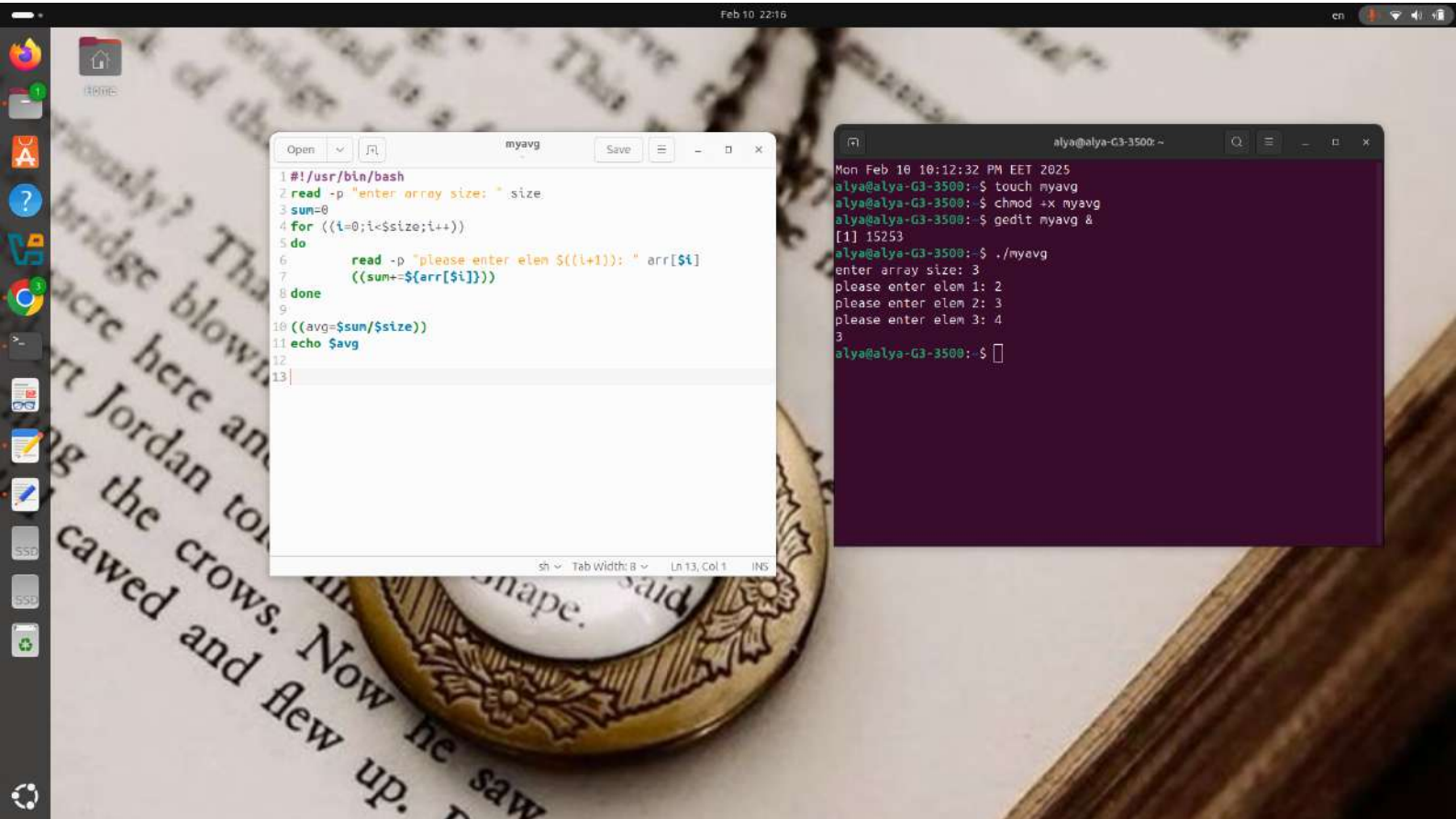
```
#!/usr/bin/bash
echo "ENTER YOUR CHOICE"
select choice in ls ls-a exit
do
case $choice in
"ls")
ls
;;
"ls-a")
ls -a
;;
"exit")
break
;;
*)
echo UNKNOWN INPUT
esac
done
```

```
Mon Feb 10 10:00:01 PM EET 2025
alya@alya-G3-3500: ~$ ./select
ENTER YOUR CHOICE
1) ls
2) ls-a
3) exit
#? 1
CentOS-Stream-9-latest-x86_64-dvd1.iso  lab1.class  oldpasswd
chkmail                                lab1_git   page1.html
dead.letter                             lab1.java  page2.html
Desktop                                lol        passwd_copy
Documents                               mbox       Pictures
Downloads                              mtemplate Public
etc_backup.tar                         Music      select
file1                                  mybackup  snap
file1.zip                             mycase    Templates
Gusers                                mychmod   test.wav
home_backup.tar.gz                   mycv      Videos
ksh-script                           mymail    'VirtualBox VMs'
#? 2
.                                       .gnupg     nymail
.                                       Gusers     .mysql_history
.bash_history                         home_backup.tar.gz oldpasswd
.bash_logout                         ksh-script page1.html
.bash_profile                        lab1.class page2.html
.bashrc                              lab1_git   passwd_copy
.bashrc.swp                          lab1.java  Pictures
.cache                               .lesshtst .pki
CentOS-Stream-9-latest-x86_64-dvd1.iso .local     .profile
chkmail                              lol        Public
.config                              mbox       select
dead.letter                          mtemplate snap
Desktop                              Music      .ssh
Documents                            mybackup   .sudo_as_admin_successful
.dotnet                              mycase     Templates
Downloads                            mychmod    test.wav
etc_backup.tar                       mycv       Videos
file1                                .mycv.swm 'VirtualBox VMs'
file1.zip                             .mycv.swo .vscode
.gitconfig                            .mycv.swp
#? 3
alya@alya-G3-3500: ~$ gedit select &
[1] 14847
alya@alya-G3-3500: ~$
```



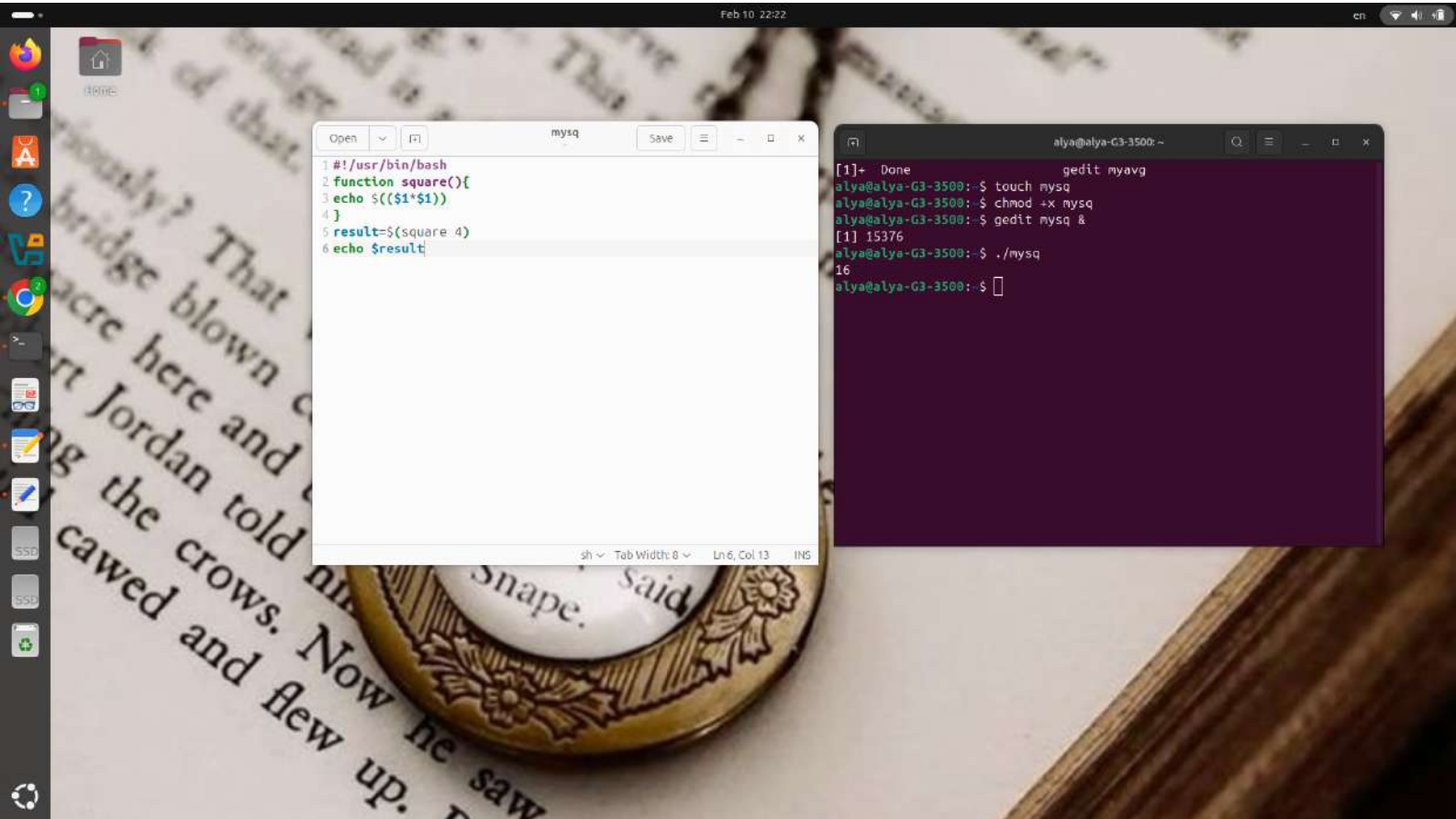
```
1#!/usr/bin/bash
2read -p "Enter number of elements" size
3
4for ((i=0;i<size;i++))
5do
6    arr[i]=$((RANDOM % 100))
7done
8echo "Array elements: ${arr[@]}"
9
```

```
alya@alya-G3-3500: ~$ touch myarr
alya@alya-G3-3500: ~$ chmod +x myarr
alya@alya-G3-3500: ~$ gedit myarr &
[2] 14916
alya@alya-G3-3500: ~$ ./myarr
Enter number of elements3
Array elements: 43 39 42
[2]+  Done                  gedit myarr
alya@alya-G3-3500: ~$
```



```
1#!/usr/bin/bash
2read -p "enter array size: " size
3sum=0
4for ((i=0;i<size;i++))
5do
6    read -p "please enter elem $((i+1)): " arr[$i]
7    ((sum+=${arr[$i]}))
8done
9
10((avg=sum/size))
11echo $avg
12
13|
```

```
Mon Feb 10 10:12:32 PM EET 2025
alya@alya-G3-3500:~$ touch myavg
alya@alya-G3-3500:~$ chmod +x myavg
alya@alya-G3-3500:~$ gedit myavg &
[1] 15253
alya@alya-G3-3500:~$ ./myavg
enter array size: 3
please enter elem 1: 2
please enter elem 2: 3
please enter elem 3: 4
3
alya@alya-G3-3500:~$ |
```

```
Open  mysq  Save  -  +  x
1 #!/usr/bin/bash
2 function square(){
3 echo $((1*$1))
4 }
5 result=$(square 4)
6 echo $result
```

sh Tab Width: 8 Ln 6, Col 13 INS

```
alya@alya-G3-3500: ~
[1]+  Done                  gedit myavg
alya@alya-G3-3500:~$ touch mysq
alya@alya-G3-3500:~$ chmod +x mysq
alya@alya-G3-3500:~$ gedit mysq &
[1] 15376
alya@alya-G3-3500:~$ ./mysq
16
alya@alya-G3-3500:~$
```