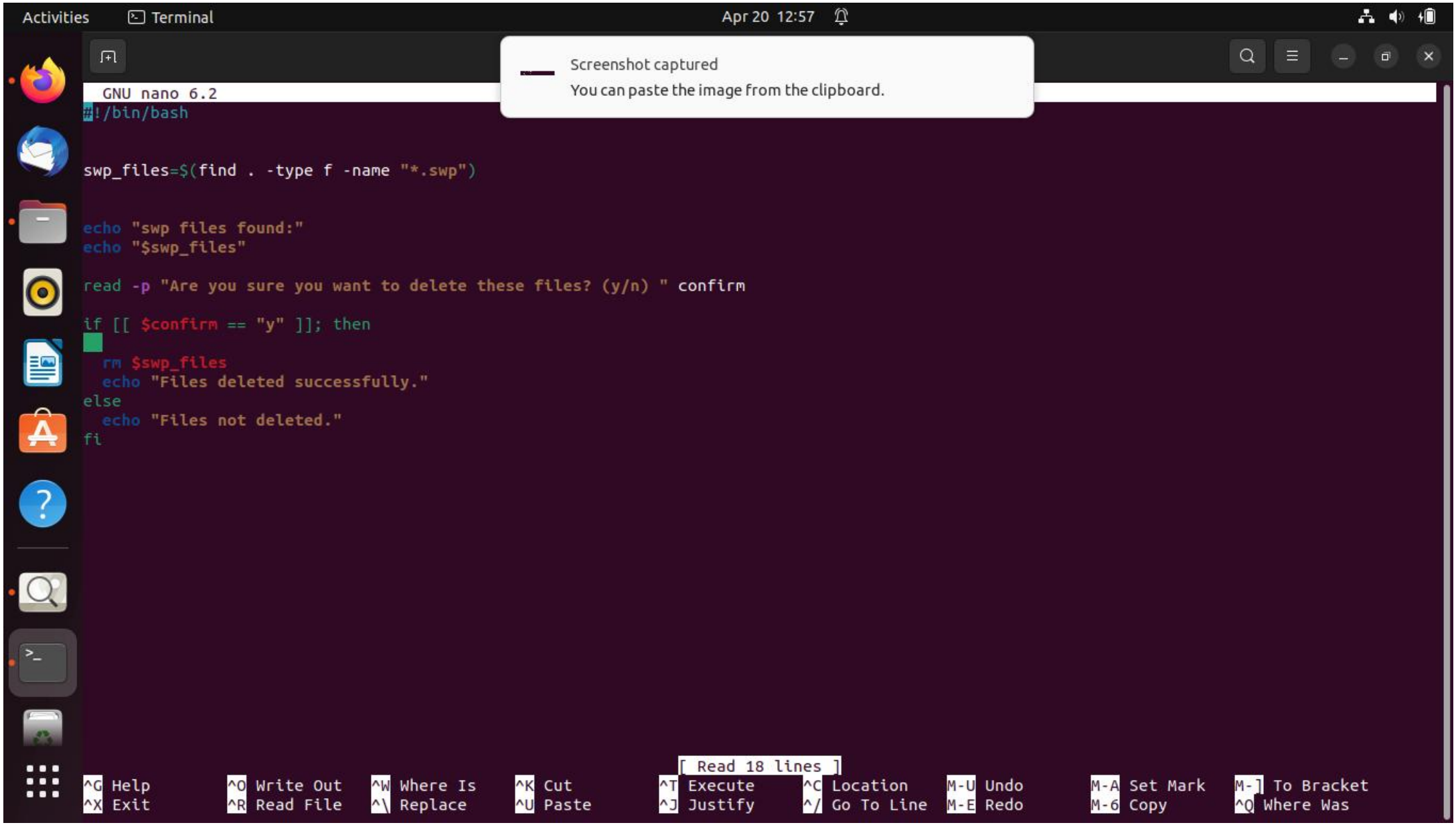
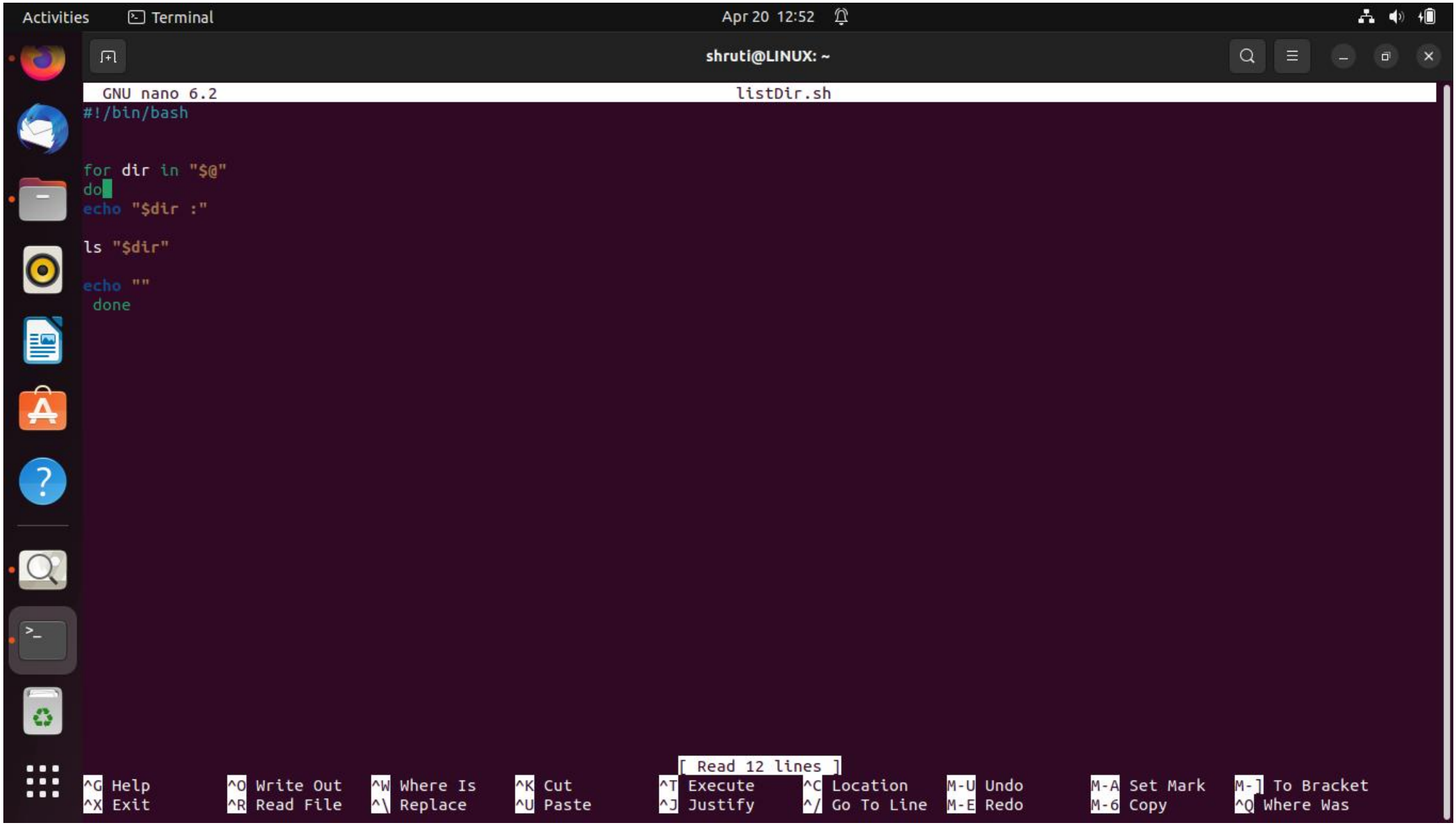
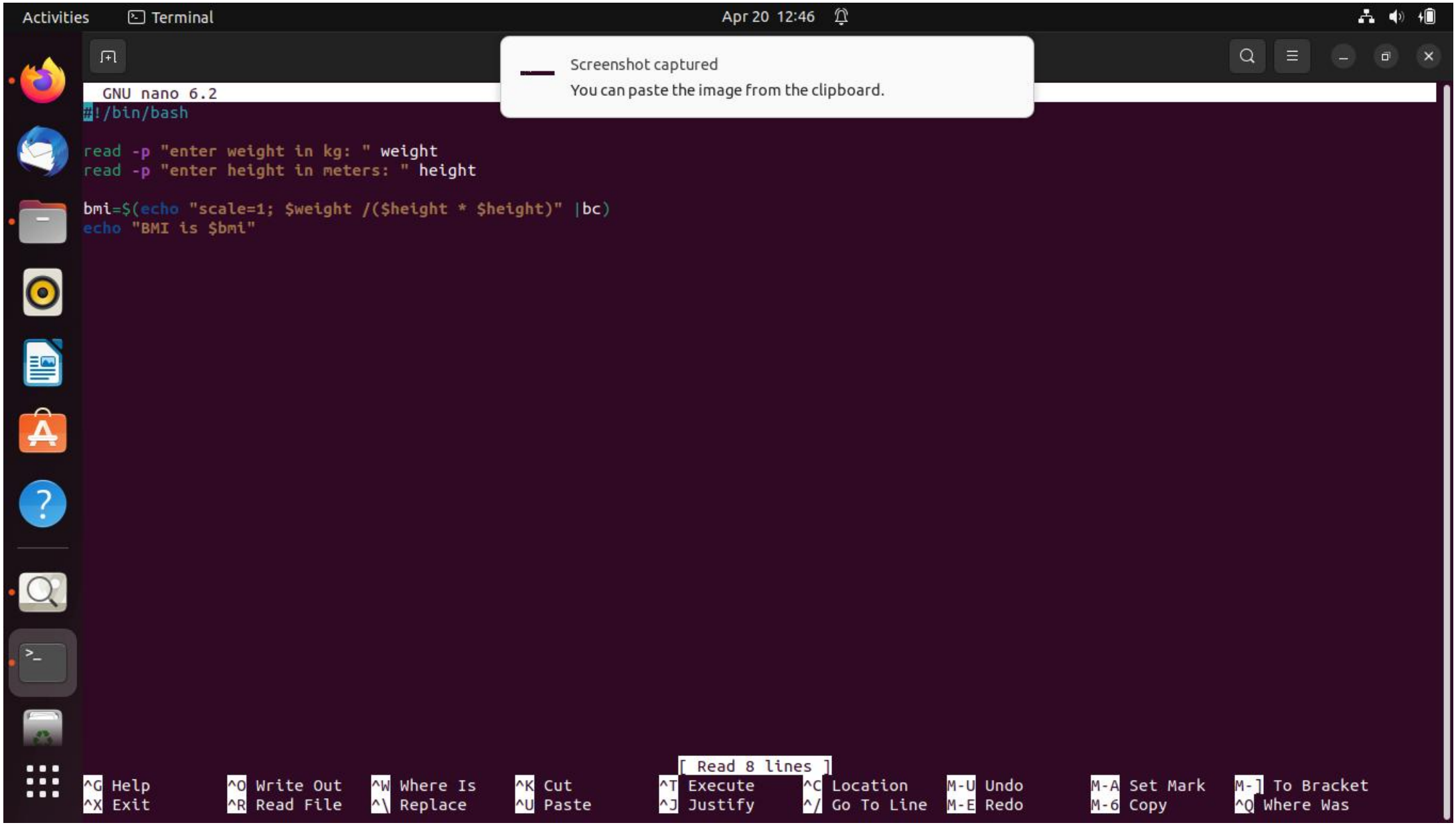

Activities
Terminal
Apr 20 12:57
Screenshot captured
You can paste the image from the clipboard.
GNU nano 6.2
#!/bin/bash
swp_files=$(find . -type f -name "*.swp")
echo "swp files found:"
echo "$swp_files"
read -p "Are you sure you want to delete these files? (y/n) " confirm
if [[$confirm == "y"]]; then
rm $swp_files
echo "Files deleted successfully."
else
echo "Files not deleted."
fi
[Read 18 lines]
^G Help ^O Write Out ^W Where Is ^K Cut ^T Execute ^C Location M-U Undo M-A Set Mark M-] To Bracket
^X Exit ^R Read File ^\ Replace ^U Paste ^J Justify ^/ Go To Line M-E Redo M-6 Copy ^Q Where Was

```
shruti@LINUX:~$ nano swp.sh
shruti@LINUX:~$ chmod + swp.sh
shruti@LINUX:~$ ./swp.sh
bash: ./swp.sh: Permission denied
shruti@LINUX:~$
```


Activities
Terminal
Apr 20 12:52
shruti@LINUX: ~
GNU nano 6.2
listDir.sh
#!/bin/bash
for dir in "$@"
do
echo "$dir :"
ls "$dir"
echo ""
done
[Read 12 lines]
^G Help
^X Exit
^O Write Out
^R Read File
^W Where Is
^\ Replace
^K Cut
^U Paste
^T Execute
^J Justify
^C Location
^/ Go To Line
M-U Undo
M-E Redo
M-A Set Mark
M-6 Copy
M-] To Bracket
^Q Where Was

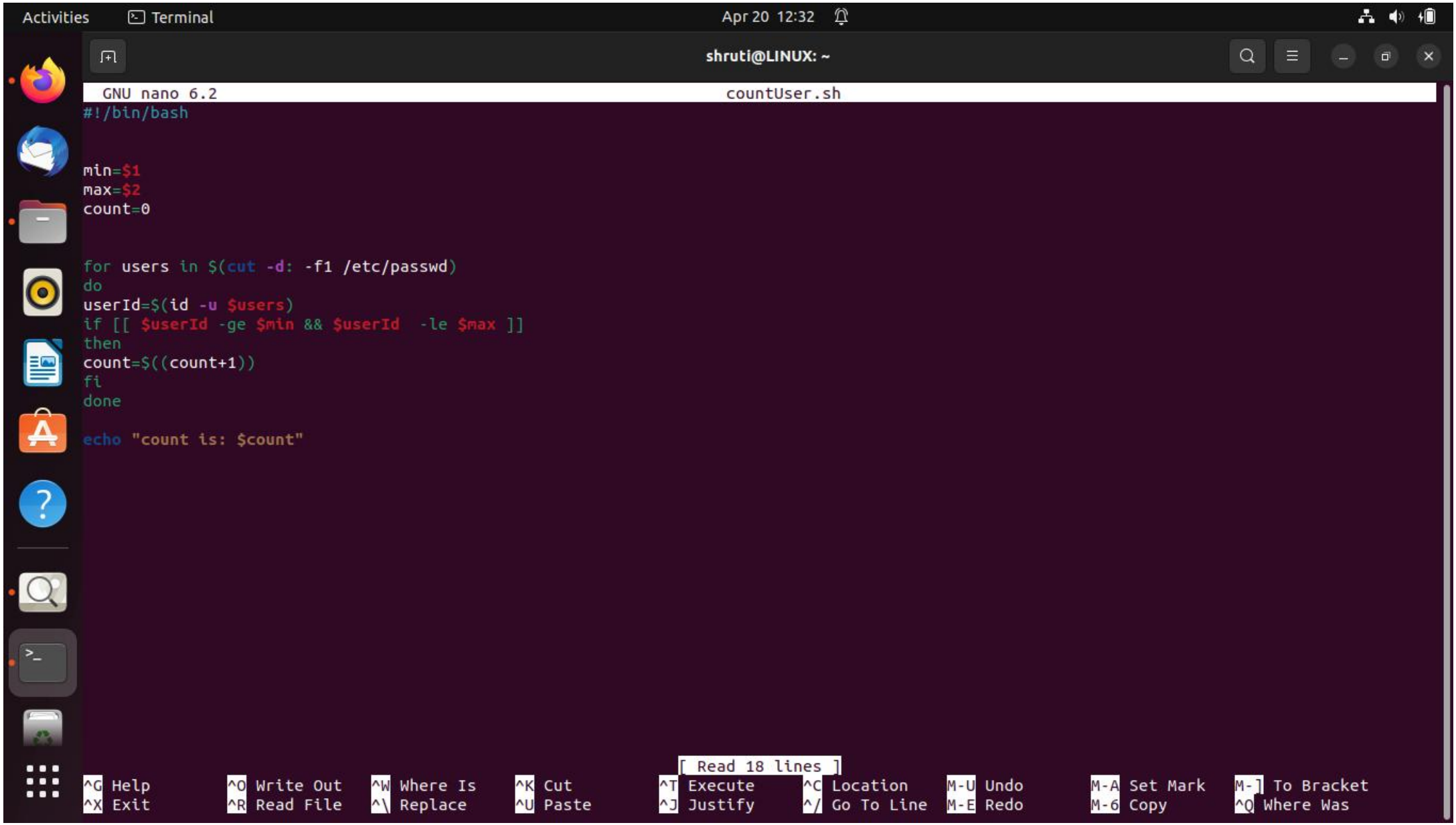
```
shruti@LINUX:~$ nano listDir.sh
shruti@LINUX:~$ chmod +x listDir.sh
shruti@LINUX:~$ ./listDir.sh home
home :
shruti

shruti@LINUX:~$
```


Activities
Terminal
Apr 20 12:46
Screenshot captured
You can paste the image from the clipboard.
GNU nano 6.2
#!/bin/bash
read -p "enter weight in kg: " weight
read -p "enter height in meters: " height
bmi=$(echo "scale=1; $weight /($height * $height)" |bc)
echo "BMI is $bmi"
[Read 8 lines]
^G Help ^O Write Out ^W Where Is ^K Cut ^T Execute ^C Location M-U Undo M-A Set Mark M-] To Bracket
^X Exit ^R Read File ^\ Replace ^U Paste ^J Justify ^/ Go To Line M-E Redo M-6 Copy ^Q Where Was

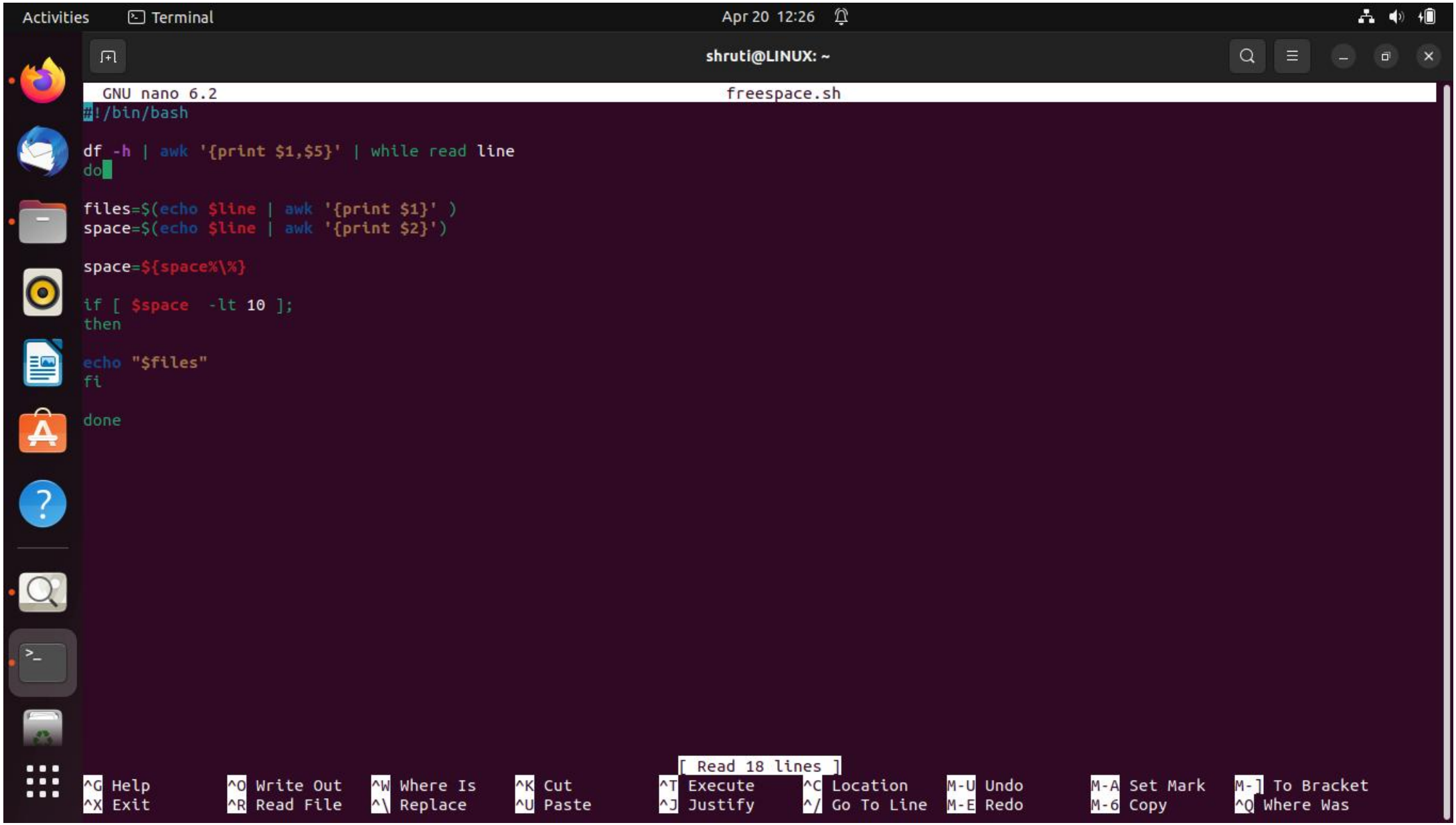
```
shruti@LINUX:~$ ./bmi.sh
enter weight in kg: 50
enter height in meters: 1.58
BMI is 20.0
shruti@LINUX:~$
```


Activities
Terminal
Apr 20 12:37
shruti@LINUX: ~
GNU nano 6.2
userPresent.sh
#!/bin/bash
if grep -q "^$1:" /etc/passwd;
then
echo "User $1 present"
else
echo "not present"
fi
[Read 9 lines]
^G Help
^X Exit
^O Write Out
^R Read File
^W Where Is
^\ Replace
^K Cut
^U Paste
^T Execute
^J Justify
^C Location
^/ Go To Line
M-U Undo
M-E Redo
M-A Set Mark
M-6 Copy
M-] To Bracket
^Q Where Was

```
shruti@LINUX:~$ nano userPresent.sh
shruti@LINUX:~$ chmod +x userPresent.sh
shruti@LINUX:~$ ./ userPresent.sh root
bash: ./: Is a directory
shruti@LINUX:~$ ./userPresent.sh root
User root present
shruti@LINUX:~$
```


Activities
Terminal
Apr 20 12:32
shruti@LINUX: ~
GNU nano 6.2
countUser.sh
#!/bin/bash
min=$1
max=$2
count=0
for users in $(cut -d: -f1 /etc/passwd)
do
userId=$(id -u $users)
if [[$userId -ge $min && $userId -le $max]]
then
count=$((count+1))
fi
done
echo "count is: $count"
[Read 18 lines]
^G Help
^X Exit
^O Write Out
^R Read File
^W Where Is
^\ Replace
^K Cut
^U Paste
^T Execute
^J Justify
^C Location
^/ Go To Line
M-U Undo
M-E Redo
M-A Set Mark
M-6 Copy
M-] To Bracket
^Q Where Was

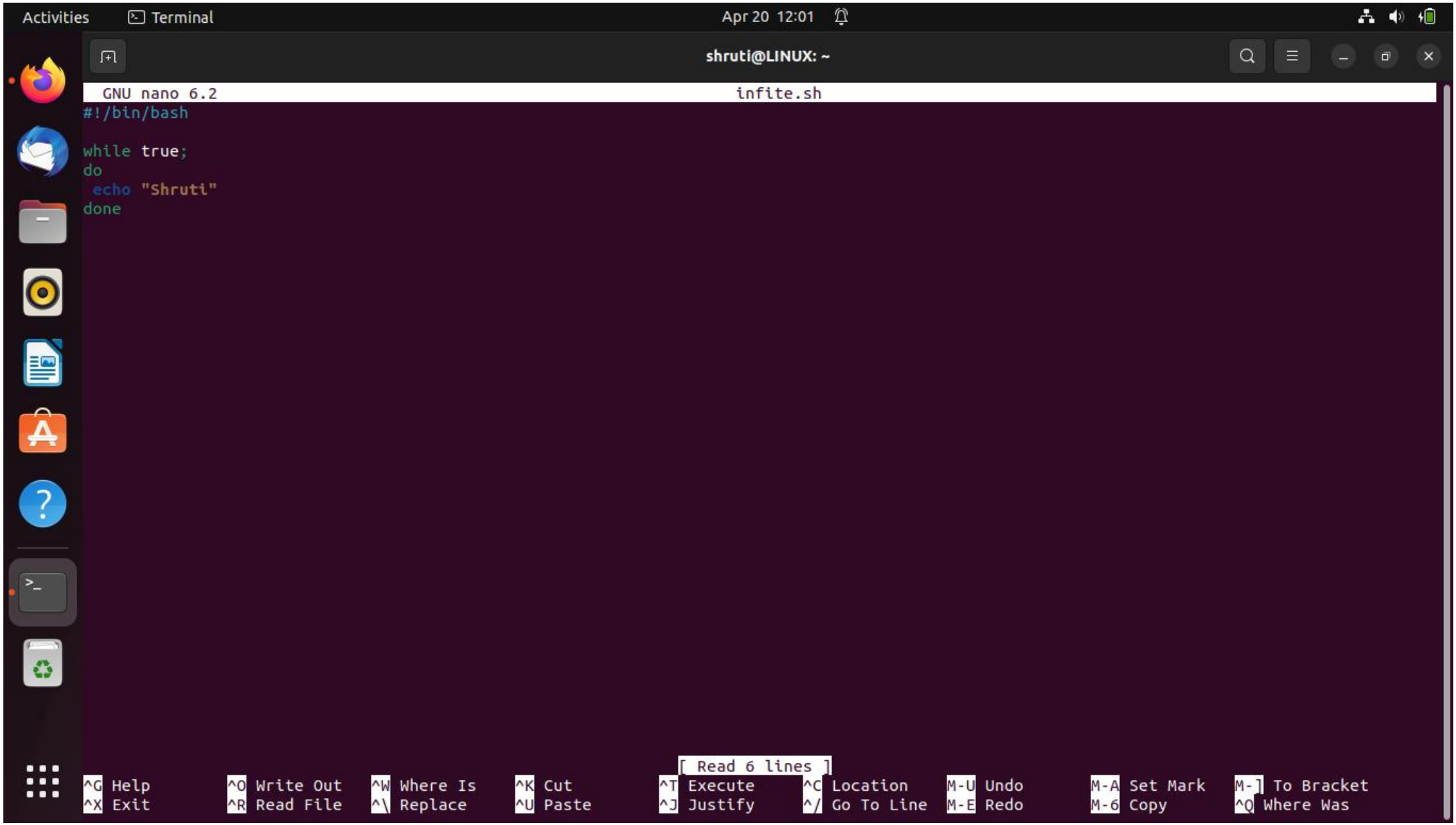
```
shruti@LINUX:~$ nano countUser.sh
shruti@LINUX:~$ chmod +x countUser.sh
shruti@LINUX:~$ ./countUser.sh 100 3000
count is: 29
shruti@LINUX:~$
```

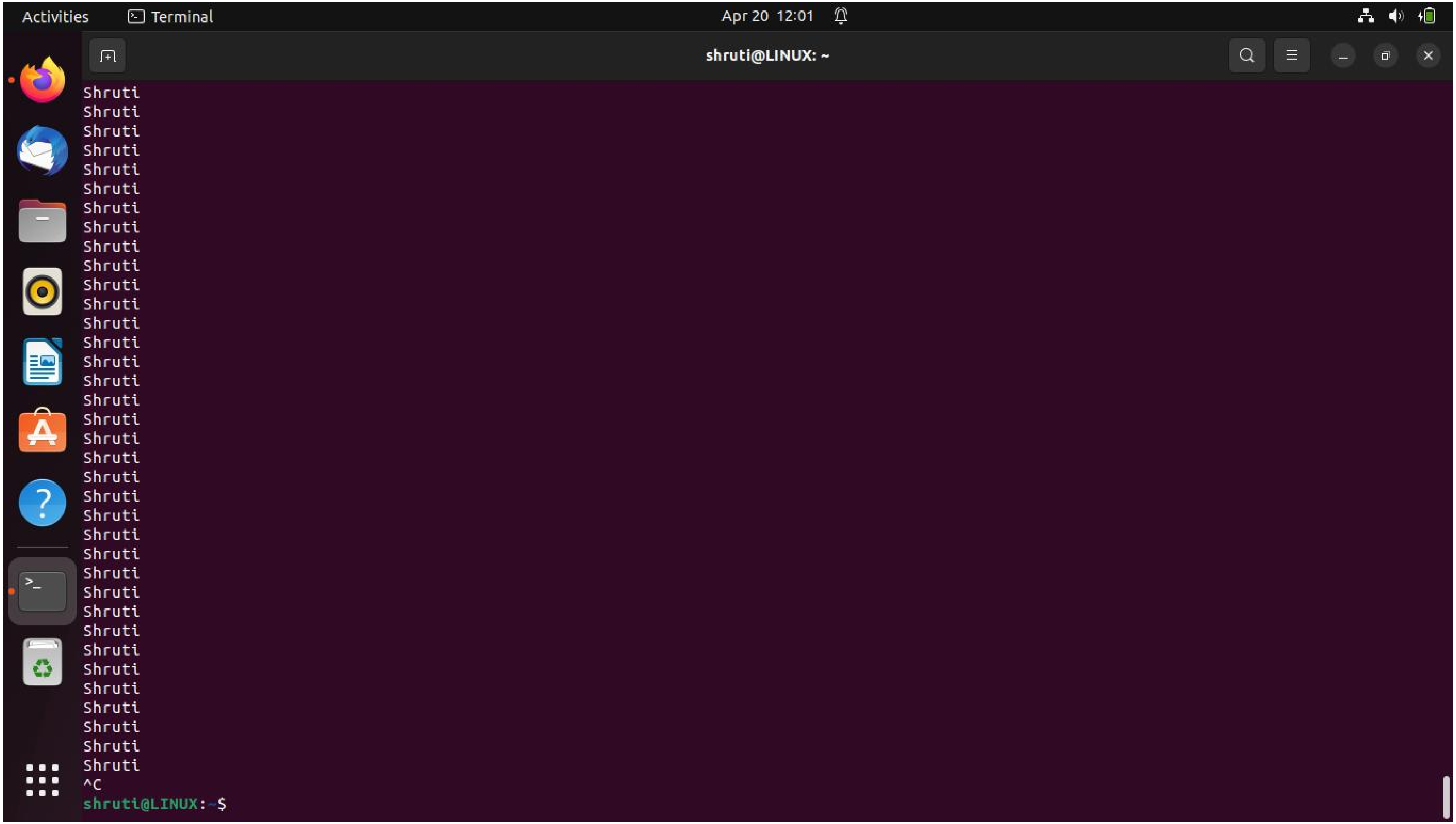

Activities
Terminal
Apr 20 12:26
shruti@LINUX: ~
GNU nano 6.2
freespace.sh
#!/bin/bash
df -h | awk '{print $1,$5}' | while read line
do
files=$(echo $line | awk '{print $1}')
space=$(echo $line | awk '{print $2}')
space=${space%\%}
if [$space -lt 10];
then
echo "$files"
fi
done
[Read 18 lines]
^G Help
^X Exit
^O Write Out
^R Read File
^W Where Is
^\ Replace
^K Cut
^U Paste
^T Execute
^J Justify
^C Location
^/ Go To Line
M-U Undo
M-E Redo
M-A Set Mark
M-6 Copy
M-] To Bracket
^Q Where Was

```
shruti@LINUX:~$ nano recursion.sh
shruti@LINUX:~$ nano freespace.sh
shruti@LINUX:~$ chmod +x freespace.sh
shruti@LINUX:~$ ./freespace.sh
./freespace.sh: line 11: [: Use: integer expression expected
tmpfs
tmpfs
tmpfs

/dev/sda2
tmpfs
shruti@LINUX:~$
shruti@LINUX:~$
```


Activities
Terminal
Apr 20 12:10
shruti@LINUX: ~
GNU nano 6.2
recursion.sh
#!/bin/bash
function recursion {
if [[$# -gt 0]];
then
echo "$1"
shift
recursion "$@"
fi
}
recursion "$@"
[Read 15 lines]
^G Help
^X Exit
^O Write Out
^R Read File
^W Where Is
^\ Replace
^K Cut
^U Paste
^T Execute
^J Justify
^C Location
^/ Go To Line
M-U Undo
M-E Redo
M-A Set Mark
M-6 Copy
M-] To Bracket
^Q Where Was

```
shruti@LINUX:~$ nano recursion.sh
shruti@LINUX:~$ chmod +x recursion.sh
shruti@LINUX:~$ ./recursion 8 7 5 6
bash: ./recursion: No such file or directory
shruti@LINUX:~$ ./recursion.sh 8 7 5 6
8
7
5
6
shruti@LINUX:~$
```


Activities
Terminal
Apr 20 12:01
shruti@LINUX: ~
GNU nano 6.2
infite.sh
#!/bin/bash
while true;
do
echo "Shruti"
done
[Read 6 lines]
^G Help
^X Exit
^O Write Out
^R Read File
^W Where Is
^\ Replace
^K Cut
^U Paste
^T Execute
^J Justify
^C Location
^/ Go To Line
M-U Undo
M-E Redo
M-A Set Mark
M-6 Copy
M-] To Bracket
^Q Where Was


Activities
Terminal
Apr 20 12:01
shruti@LINUX: ~
Shruti
Shruti
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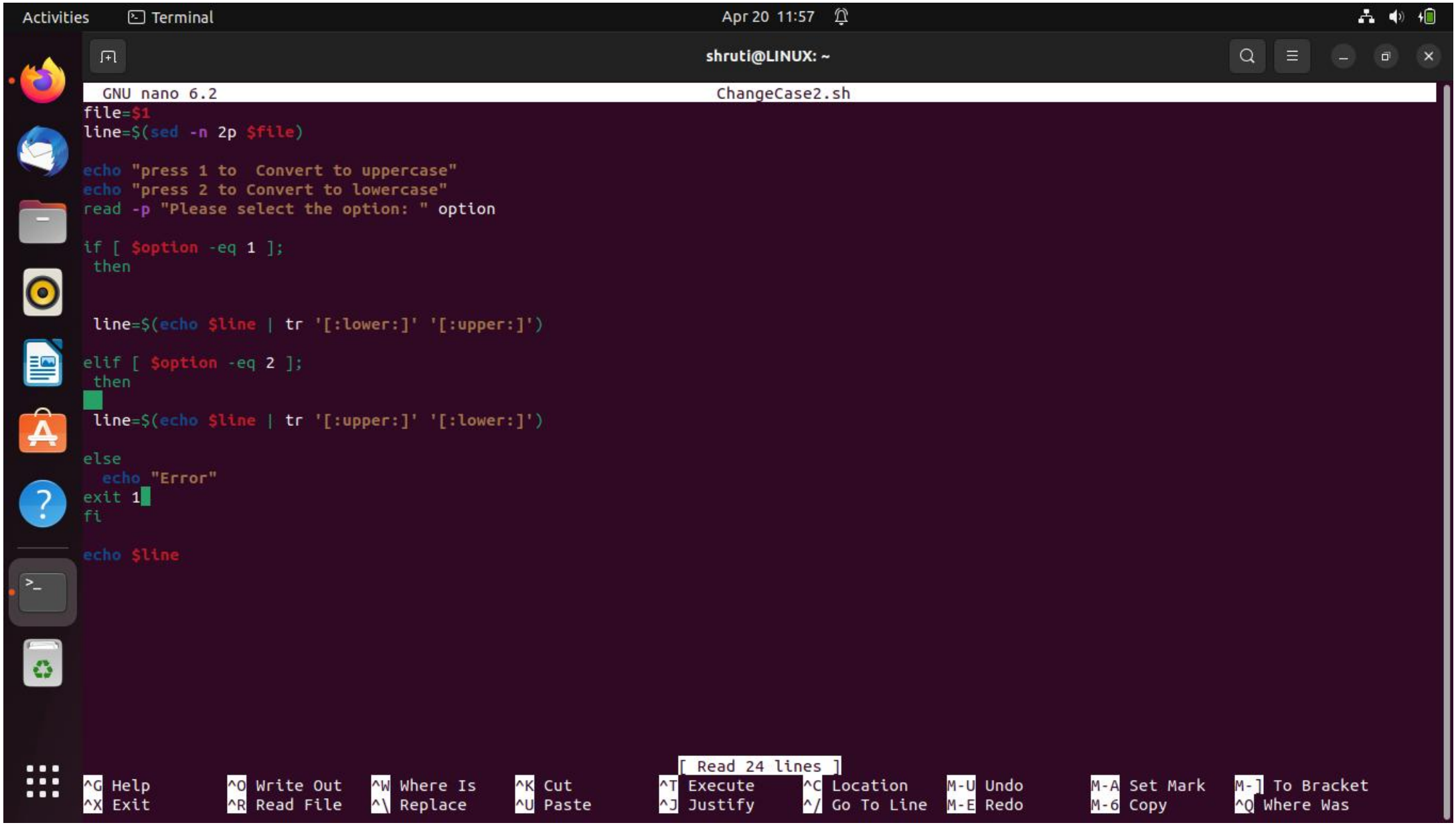
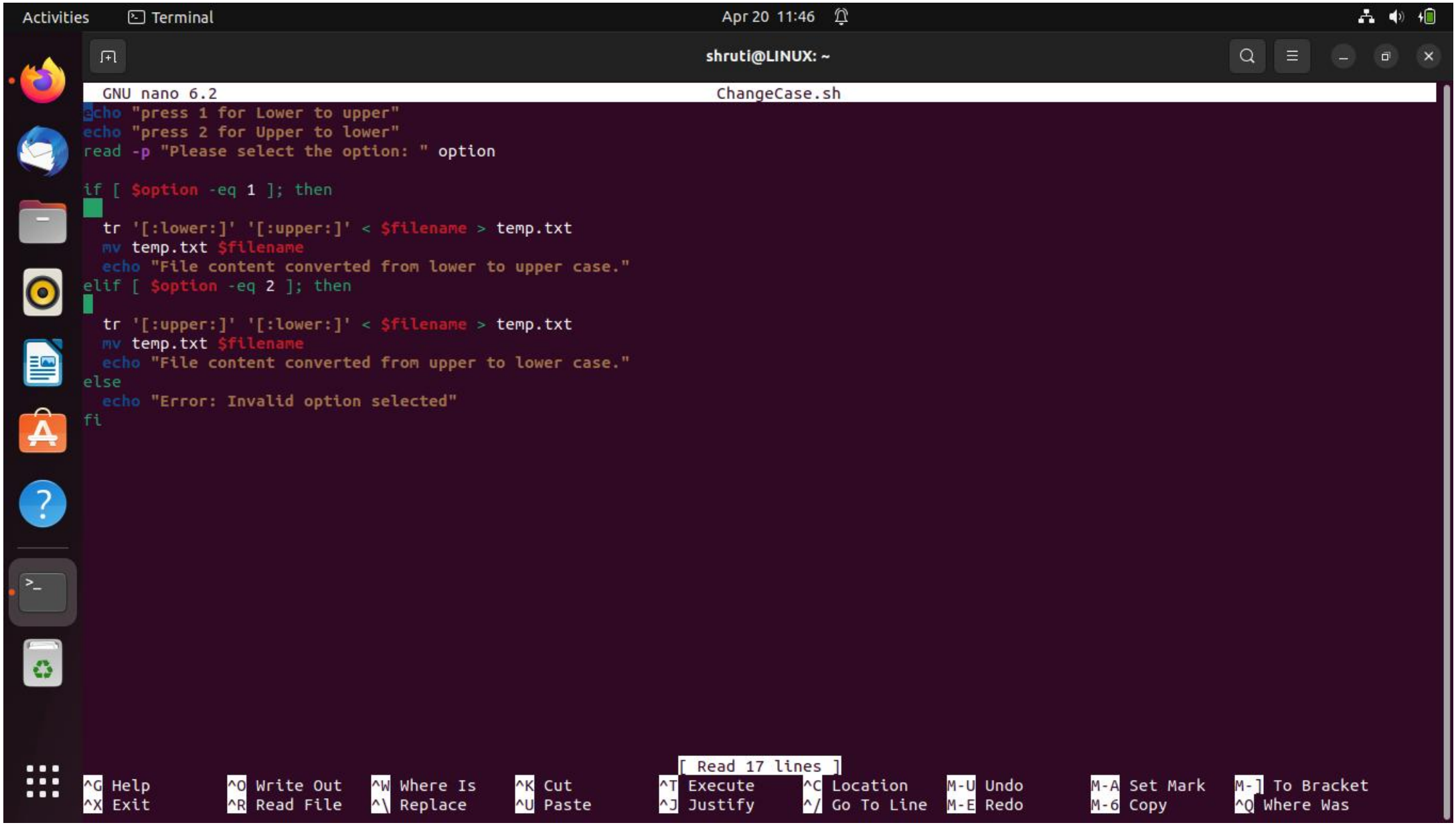
Shruti
Shruti
^C
shruti@LINUX:~$


Activities
Terminal
Apr 20 11:57
shruti@LINUX: ~
GNU nano 6.2
ChangeCase2.sh
file=$1
line=$(sed -n 2p $file)
echo "press 1 to Convert to uppercase"
echo "press 2 to Convert to lowercase"
read -p "Please select the option: " option
if [$option -eq 1];
then
line=$(echo $line | tr '[:lower:]' '[:upper:]')
elif [$option -eq 2];
then
line=$(echo $line | tr '[:upper:]' '[:lower:]')
else
echo "Error"
exit 1
fi
echo $line
[Read 24 lines]
^G Help
^X Exit
^O Write Out
^R Read File
^W Where Is
^\ Replace
^K Cut
^U Paste
^T Execute
^J Justify
^C Location
^/ Go To Line
M-U Undo
M-E Redo
M-A Set Mark
M-6 Copy
M-] To Bracket
^Q Where Was

```
shruti@LINUX:~$ nano ChangeCase2.sh
shruti@LINUX:~$ ./ChangeCase2.sh hello.txt
press 1 to  Convert to uppercase
press 2 to Convert to lowercase
Please select the option: 1
WELCOME TO DAY2 TRAINING OF LINUX
shruti@LINUX:~$
```

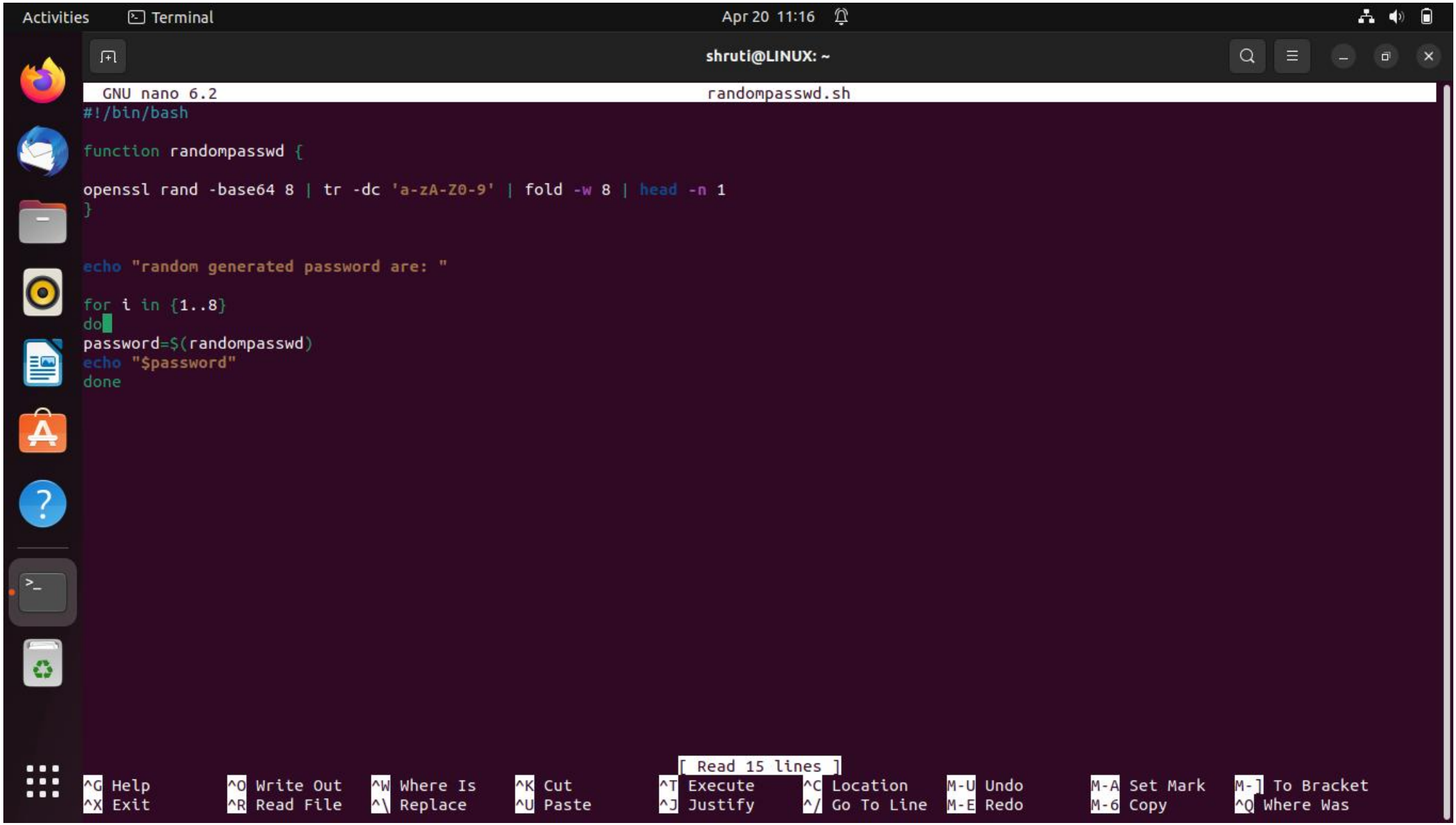

Activities
Terminal
Apr 20 11:46
shruti@LINUX: ~
GNU nano 6.2
ChangeCase.sh
echo "press 1 for Lower to upper"
echo "press 2 for Upper to lower"
read -p "Please select the option: " option
if [$option -eq 1]; then
tr '[:lower:]' '[:upper:]' < $filename > temp.txt
mv temp.txt $filename
echo "File content converted from lower to upper case."
elif [$option -eq 2]; then
tr '[:upper:]' '[:lower:]' < $filename > temp.txt
mv temp.txt $filename
echo "File content converted from upper to lower case."
else
echo "Error: Invalid option selected"
fi
[Read 17 lines]
^G Help ^O Write Out ^W Where Is ^K Cut ^T Execute ^C Location M-U Undo M-A Set Mark M-] To Bracket
^X Exit ^R Read File ^\ Replace ^U Paste ^J Justify ^/ Go To Line M-E Redo M-6 Copy ^Q Where Was

```
shruti@LINUX:~$ cat hello.txt
hello from shruti
welcome to day2 training of linux
hi from shruti
shruti@LINUX:~$ chmod +x ChangeCase.sh
shruti@LINUX:~$ ./ChangeCase.sh hello.txt
press 1 for Lower to upper
press 2 for Upper to lower
Please select the option: 1
./ChangeCase.sh: line 7: $filename: ambiguous redirect
mv: missing destination file operand after 'temp.txt'
Try 'mv --help' for more information.
File content converted from lower to upper case.
shruti@LINUX:~$ ./ChangeCase.sh hello.txt
```

```
shruti@LINUX:~$ cat hello.txt
hello from shruti
welcome to day2 training of linux
hi from shruti
shruti@LINUX:~$ chmod +x ChangeCase.sh
shruti@LINUX:~$ ./ChangeCase.sh hello.txt
press 1 for Lower to upper
press 2 for Upper to lower
Please select the option: 1
./ChangeCase.sh: line 7: $filename: ambiguous redirect
mv: missing destination file operand after 'temp.txt'
Try 'mv --help' for more information.
File content converted from lower to upper case.
shruti@LINUX:~$ ./ChangeCase.sh hello.txt
```


Activities
Terminal
Apr 20 11:27
shruti@LINUX: ~
GNU nano 6.2
greetings.sh
#!/bin/bash
hour=$(date +%H)
if ((hour >= 0 && hour < 12)) ;
then
msg="Good Morning"
elif ((gour >=12 && hour < 18));
then
msg="Good Afternoon"
else
msg="Good evening"
fi
name=$(whoami)
datetime=$(date +"%A %d in %B of %Y (%r)")
echo "$msg $name"
echo "This is $datetime"
[Read 23 lines]
^G Help
^X Exit
^O Write Out
^R Read File
^W Where Is
^\ Replace
^K Cut
^U Paste
^T Execute
^J Justify
^C Location
^/ Go To Line
M-U Undo
M-E Redo
M-A Set Mark
M-6 Copy
M-] To Bracket
^Q Where Was

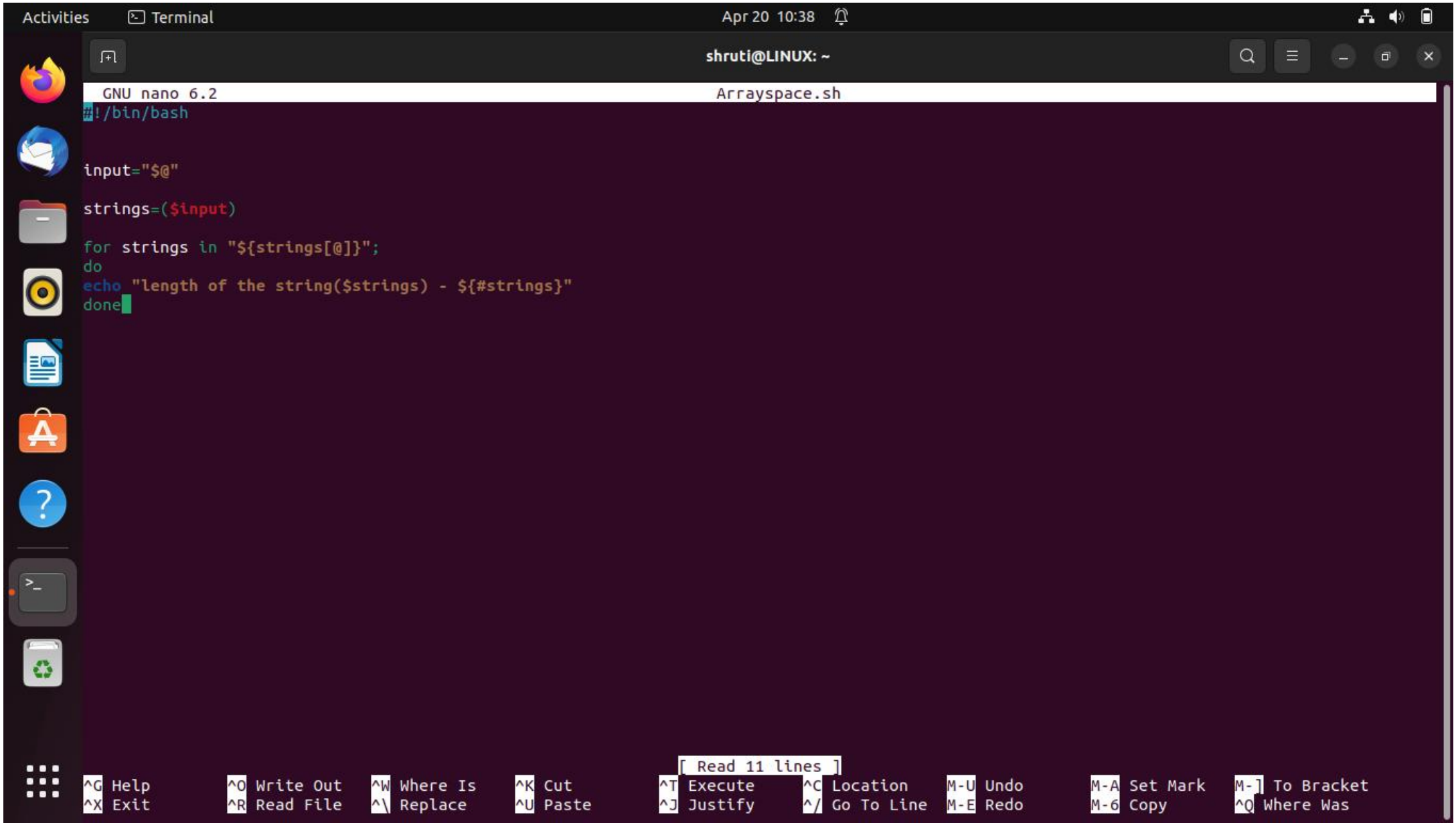
```
shruti@LINUX:~$
shruti@LINUX:~$ nano greetings.sh
shruti@LINUX:~$ chmod +x greetings.sh
shruti@LINUX:~$ ./greetings.sh
Good Morning shruti
This is Thursday 20 in April of 2023 (11:26:51 AM IST)
shruti@LINUX:~$
```


Activities
Terminal
Apr 20 11:16
shruti@LINUX: ~
GNU nano 6.2
randompasswd.sh
#!/bin/bash
function randompasswd {
openssl rand -base64 8 | tr -dc 'a-zA-Z0-9' | fold -w 8 | head -n 1
}
echo "random generated password are: "
for i in {1..8}
do
password=$(randompasswd)
echo "$password"
done
[Read 15 lines]
^G Help
^X Exit
^O Write Out
^R Read File
^W Where Is
^\ Replace
^K Cut
^U Paste
^T Execute
^J Justify
^C Location
^/ Go To Line
M-U Undo
M-E Redo
M-A Set Mark
M-6 Copy
M-] To Bracket
^Q Where Was

```
shruti@LINUX:~$ nano randompasswd.sh
shruti@LINUX:~$
shruti@LINUX:~$ chmod +x randompasswd.sh
shruti@LINUX:~$ ./randompasswd.sh
random generated password are:
R9IF9fVm
XiW9VYTW
XoXtcHPx
swu3QW31
oOaTiYXN
0aobRUkP
KwgmrAk1
gOMGhzRC
shruti@LINUX:~$
```


Activities
Terminal
Apr 20 11:02
shruti@LINUX: ~
GNU nano 6.2
username.sh
#!/bin/bash
users=$(cut -d: -f1 /etc/passwd)
longest=""
shortest=$(echo "$users" | head -n 1)
for user in $users
do
if [${#user} -gt ${#longest}];
then
longest=$user
fi
if [${#user} -lt ${#shortest}];
then
shortest=$user
fi
done
echo "longest user is $lonegst"
echo "shortest user is $shortest"
[Read 25 lines]
^G Help
^X Exit
^O Write Out
^R Read File
^W Where Is
^\ Replace
^K Cut
^U Paste
^T Execute
^J Justify
^C Location
^/ Go To Line
M-U Undo
M-E Redo
M-A Set Mark
M-6 Copy
M-] To Bracket
^Q Where Was

```
shruti@LINUX:~$ nano username.sh
shruti@LINUX:~$ chmod +x username.sh
shruti@LINUX:~$ ./username.sh
longest user is
shortest user is lp
shruti@LINUX:~$
```


Activities
Terminal
Apr 20 10:38
shruti@LINUX: ~
GNU nano 6.2
Arrayspace.sh
#!/bin/bash
input="$@"
strings=($input)
for strings in "${strings[@]}";
do
echo "length of the string($strings) - ${#strings}"
done
[Read 11 lines]
^G Help
^X Exit
^O Write Out
^R Read File
^W Where Is
^\ Replace
^K Cut
^U Paste
^T Execute
^J Justify
^C Location
^/ Go To Line
M-U Undo
M-E Redo
M-A Set Mark
M-6 Copy
M-] To Bracket
^Q Where Was

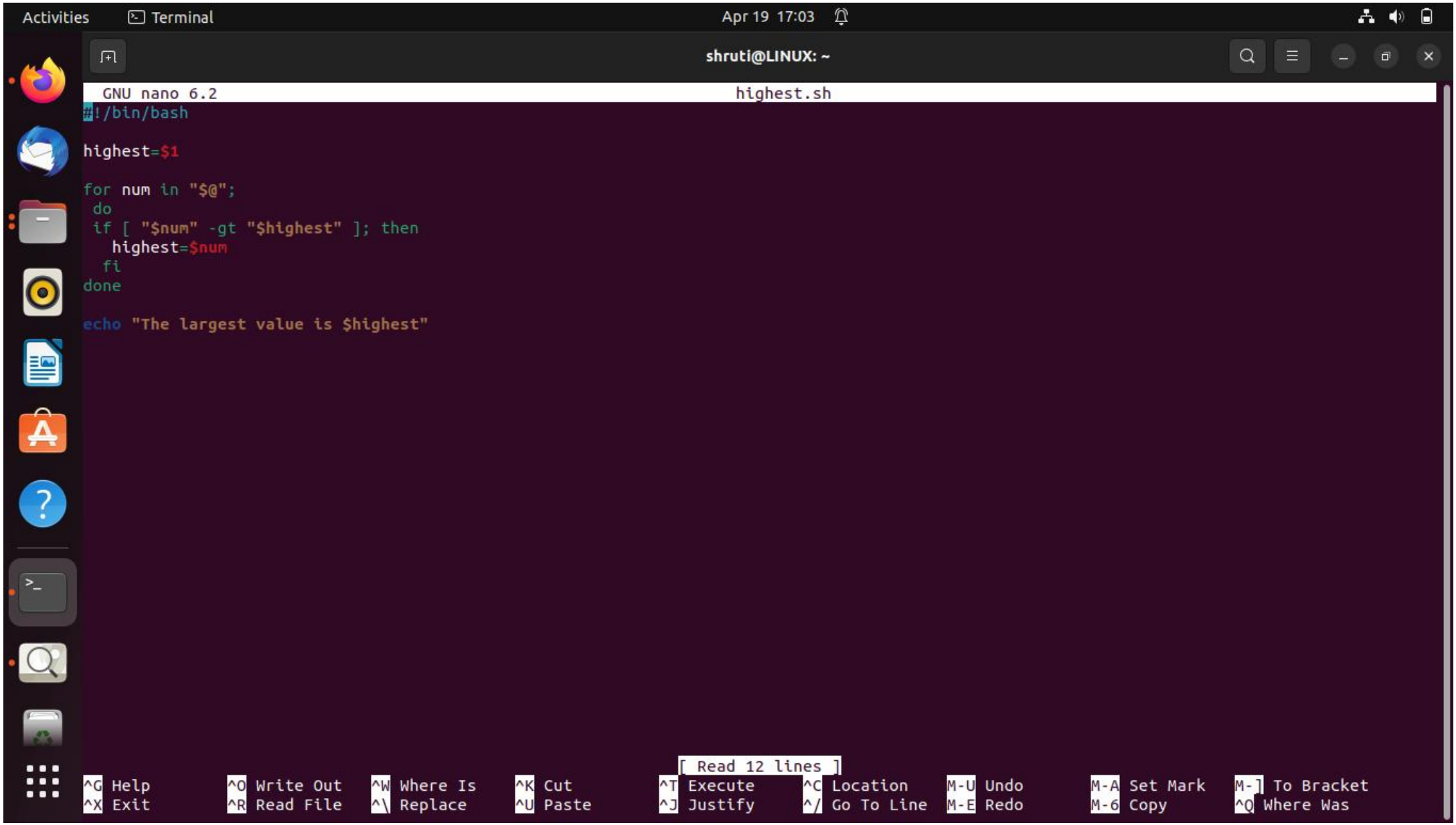
```
shruti@LINUX:~$ nano Arrayspace.sh
shruti@LINUX:~$ chmod +x Arrayspace.sh
shruti@LINUX:~$ ./Arrayspace.sh
shruti@LINUX:~$ ./Arrayspace.sh Hello welcome
length of the string(Hello) - 5
length of the string(welcome) - 7
shruti@LINUX:~$
```


Activities
Terminal
Apr 20 10:26
shruti@LINUX: ~
GNU nano 6.2
fibonacci.sh
#!/bin/bash
read -p "Enter value of n: " n
a=0
b=1
echo -n "$a"
while [$b -le $n];
do
echo -n " $b"
c=$((a + b))
a=$b
b=$c
done
echo ""
[Read 18 lines]
^G Help
^X Exit
^O Write Out
^R Read File
^W Where Is
^\ Replace
^K Cut
^U Paste
^T Execute
^J Justify
^C Location
^/ Go To Line
M-U Undo
M-E Redo
M-A Set Mark
M-6 Copy
M-] To Bracket
^Q Where Was

```
shruti@LINUX:~$ nano fibonacci.sh
shruti@LINUX:~$ chmod +x fibonacci.sh
shruti@LINUX:~$ ./fibonacci.sh
Enter value of n: 4
0 1 1 2 3
shruti@LINUX:~$
```


Activities
Terminal
Apr 19 17:10
shruti@LINUX: ~
GNU nano 6.2
reversenum.sh
#!/bin/bash
num=$1
reversed=""
while ["$num" -gt 0];
do
digit=$(($num % 10))
reversed="$reversed$digit"
num=$(($num / 10))
done
echo "The reversed number of entered number is $reversed"
[Read 14 lines]
^G Help
^X Exit
^O Write Out
^R Read File
^W Where Is
^\ Replace
^K Cut
^U Paste
^T Execute
^J Justify
^C Location
^/ Go To Line
M-U Undo
M-E Redo
M-A Set Mark
M-6 Copy
M-] To Bracket
^Q Where Was

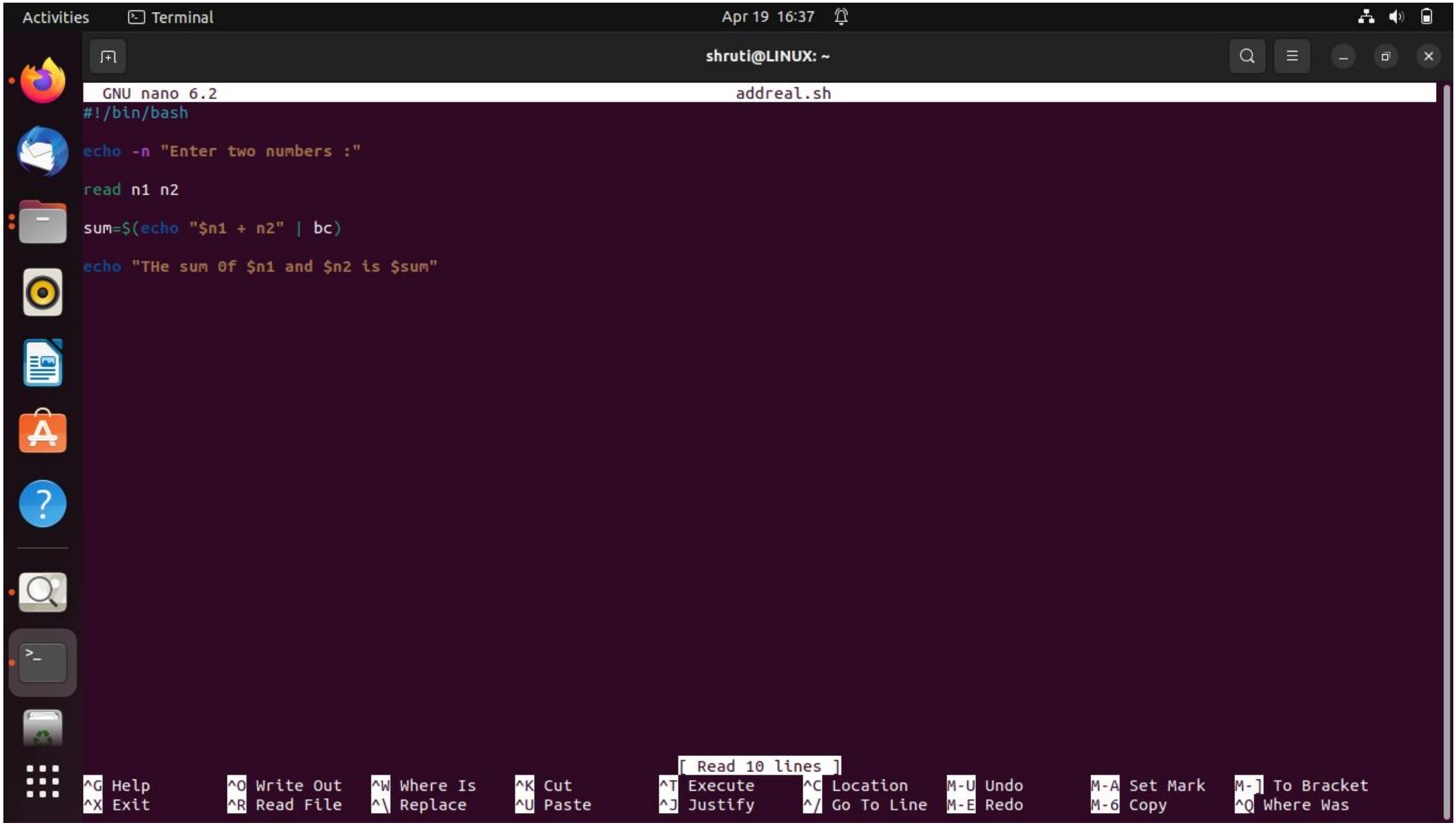
```
shruti@LINUX:~$ chmod +x reversenum.sh
shruti@LINUX:~$ ./reversenum.sh
./reversenum.sh: line 7: [: : integer expression expected
The reversed number of entered number is
shruti@LINUX:~$ ./reversenum.sh 786
The reversed number of entered number is 687
shruti@LINUX:~$
```


Activities
Terminal
Apr 19 17:03
shruti@LINUX: ~
GNU nano 6.2
highest.sh
#!/bin/bash
highest=$1
for num in "$@";
do
if ["$num" -gt "$highest"]; then
highest=$num
fi
done
echo "The largest value is $highest"
[Read 12 lines]
^G Help
^X Exit
^O Write Out
^R Read File
^W Where Is
^\ Replace
^K Cut
^U Paste
^T Execute
^J Justify
^C Location
^/ Go To Line
M-U Undo
M-E Redo
M-A Set Mark
M-6 Copy
M-] To Bracket
^Q Where Was

```
shruti@LINUX:~$ nano highest.sh
shruti@LINUX:~$ chmod +x highest.sh
shruti@LINUX:~$ ./highest.sh
The largest value is
shruti@LINUX:~$ ./highest.sh  8 9 0 4 6
The largest value is 9
shruti@LINUX:~$
```


Activities
Terminal
Apr 19 16:59
shruti@LINUX: ~
GNU nano 6.2
case1.sh
#!/bin/bash
op1=$1
operator=$2
op2=$3
case $operator in
+)
result=$(echo "$op1 + $op2" | bc)
;;
-)
result=$(echo "$op1 - $op2" | bc)
;;
*)
result=$(echo "$op1 * $op2" | bc)
;;
/)
result=$(echo "$op1 / $op2" | bc)
;;
*)
echo "Error: Invalid operator"
echo "Valid operators are +, -, *, and /"
exit 1
esac
print the result of the arithmetic operation
echo "The $operator of $op1 and $op2 is $result"
[Read 30 lines]
^G Help ^O Write Out ^W Where Is ^K Cut ^T Execute ^C Location M-U Undo M-A Set Mark M-] To Bracket
^X Exit ^R Read File ^\ Replace ^U Paste ^J Justify ^/ Go To Line M-E Redo M-6 Copy ^Q Where Was

```
shruti@LINUX:~$ nano case1.sh
shruti@LINUX:~$ chmod +x case1.sh
shruti@LINUX:~$ ./case1.sh  2+3
Error: Invalid operator
Valid operators are +, -, *, and /
shruti@LINUX:~$ ./case1.sh  2 + 7
The + of 2 and 7 is 9
shruti@LINUX:~$
```


Activities
Terminal
Apr 19 16:37
shruti@LINUX: ~
GNU nano 6.2
addreal.sh
#!/bin/bash
echo -n "Enter two numbers :"
read n1 n2
sum=$(echo "$n1 + n2" | bc)
echo "THe sum 0f $n1 and $n2 is $sum"
[Read 10 lines]
^G Help
^X Exit
^O Write Out
^R Read File
^W Where Is
^\ Replace
^K Cut
^U Paste
^T Execute
^J Justify
^C Location
^/ Go To Line
M-U Undo
M-E Redo
M-A Set Mark
M-6 Copy
M-] To Bracket
^Q Where Was

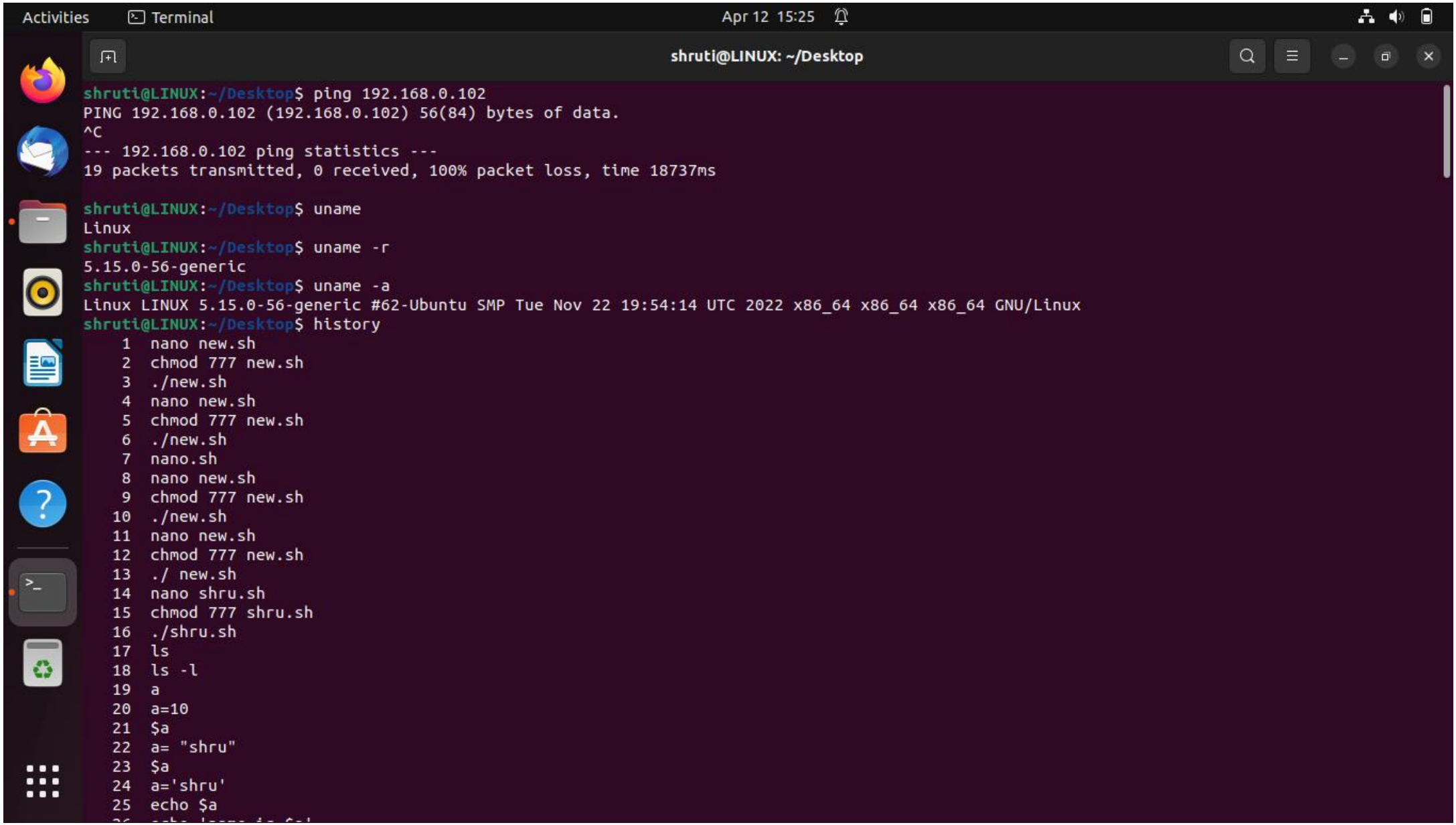
```
7 8 9 10
shruti@LINUX:~$ nano addreal.sh
shruti@LINUX:~$ chmod +x addreal.sh
shruti@LINUX:~$ ./addreal.sh
Enter two numbers :2.34 6.78
THe sum 0f 2.34 and 6.78 is 2.34
shruti@LINUX:~$
```

```
shruti@LINUX:~$ nano patternassign2.sh
shruti@LINUX:~$ chmod +x patternassign2.sh
shruti@LINUX:~$ ./patternassign2.sh
Enter the value of n:4
1
2 3
4 5 6
7 8 9 10
shruti@LINUX:~$
```


Activities
Terminal
Apr 19 16:32
shruti@LINUX: ~
GNU nano 6.2
patternassign2.sh
#!/bin/bash
echo -n "Enter the value of n:"
read n
k=1
for ((i=1;i<=n;i++));
do
for ((j=1;j<=i;j++));
do
echo -n "$k "
k=$((k+1))
done
echo ""
done
[Read 19 lines]
^G Help
^X Exit
^O Write Out
^R Read File
^W Where Is
^\ Replace
^K Cut
^U Paste
^T Execute
^J Justify
^C Location
^/ Go To Line
M-U Undo
M-E Redo
M-A Set Mark
M-6 Copy
M-] To Bracket
^Q Where Was


Activities
Terminal
Apr 19 16:23
shruti@LINUX: ~
GNU nano 6.2
patternassign1.sh
#!/bin/bash
echo -n "Enter the value of n:"
read n
for ((i=1;i<=n;i++));
do
for ((j=1;j<=i;j++));
do
echo -n "$j "
done
echo ""
done
[Read 17 lines]
^G Help
^X Exit
^O Write Out
^R Read File
^W Where Is
^\ Replace
^K Cut
^U Paste
^T Execute
^J Justify
^C Location
^/ Go To Line
M-U Undo
M-E Redo
M-A Set Mark
M-6 Copy
M-] To Bracket
^Q Where Was

```
shruti@LINUX:~$ nano patternassign1.sh
shruti@LINUX:~$ chmod +x patternassign1.sh
shruti@LINUX:~$ ./patternassign1.sh
Enter the value of n:6
1
1 2
1 2 3
1 2 3 4
1 2 3 4 5
1 2 3 4 5 6
shruti@LINUX:~$
```


Activities
Terminal
Apr 12 15:25
shruti@LINUX: ~/Desktop
shruti@LINUX:~/Desktop$ ping 192.168.0.102
PING 192.168.0.102 (192.168.0.102) 56(84) bytes of data.
^C
--- 192.168.0.102 ping statistics ---
19 packets transmitted, 0 received, 100% packet loss, time 18737ms
shruti@LINUX:~/Desktop$ uname
Linux
shruti@LINUX:~/Desktop$ uname -r
5.15.0-56-generic
shruti@LINUX:~/Desktop$ uname -a
Linux LINUX 5.15.0-56-generic #62-Ubuntu SMP Tue Nov 22 19:54:14 UTC 2022 x86_64 x86_64 x86_64 GNU/Linux
shruti@LINUX:~/Desktop$ history
1 nano new.sh
2 chmod 777 new.sh
3 ./new.sh
4 nano new.sh
5 chmod 777 new.sh
6 ./new.sh
7 nano.sh
8 nano new.sh
9 chmod 777 new.sh
10 ./new.sh
11 nano new.sh
12 chmod 777 new.sh
13 ./ new.sh
14 nano shru.sh
15 chmod 777 shru.sh
16 ./shru.sh
17 ls
18 ls -l
19 a
20 a=10
21 $a
22 a= "shru"
23 $a
24 a='shru'
25 echo $a