```
maha@maha-Precision-7510:~$ nano mycase.sh
maha@maha-Precision-7510:~$ chmod +x mycase.sh
maha@maha-Precision-7510:~$ ./mycase.sh
Enter your char : V
Upper Case
maha@maha-Precision-7510:~$ ./mycase.sh
Enter your char : &
Nothing
maha@maha-Precision-7510:~$
maha@maha-Precision-7510:~$
```

```
GNU nano 8.1

shopt -s extglob

read -p "Enter your char: " your_ch

case "$your_ch" in

([A-Z]) echo "Upper Case"

;;

([a-z]) echo "Lower Case"

;;

([0-9]) echo "Number"

;;

*)

echo "Nothing"

;;

esac
```

```
maha@maha-Precision-7510:~$ nano mycase2.sh
maha@maha-Precision-7510:~$ chmod +x mycase2.sh
maha@maha-Precision-7510:~$ ./mycase2.sh
Enter your string: HI
Upper Case
maha@maha-Precision-7510:~$ ./mycase2.sh
Enter your string: 999k
Mix
maha@maha-Precision-7510:~$
```

```
\oplus
                                           Terminal
maha@maha-Precision-7510:~$ nano mychmod.sh
maha@maha-Precision-7510:~$ chmod +x mychmod.sh
maha@maha-Precision-7510:~$ ./mychmod
bash: ./mychmod: No such file or directory
maha@maha-Precision-7510:~$ ./mychmod.sh
done
maha@maha-Precision-7510:~$
 \oplus
 GNU nano 8.1
ar="$HOME"
for i in "$var"/*;
chmod +x "$i"
echo "done"
```

```
maha@maha-Precision-7510:~$ nano mybackup.sh
maha@maha-Precision-7510:~$ chmod +x mybackup.sh
maha@maha-Precision-7510:~$ ./mybackup.sh
done
maha@maha-Precision-7510:~$
maha@maha-Precision-7510:~$
```

```
GNU nano 8.1

var="$HOME"
backup_dir="$HOME/backup_dir"
mkdir -p "$backup_dir"

for i in "$var"/*;

do
    if [[ -f "$i" ]];
    then
    cp "$i" "$backup_dir"

fi
    done
    echo "done"
```

```
Terminal
maha@maha-Precision-7510:~$ nano mymail.sh
maha@maha-Precision-7510:~$ chmod +x mymail.sh
maha@maha-Precision-7510:~$ ./mymil.sh
bash: ./mymil.sh: No such file or directory
maha@maha-Precision-7510:~$ ./mymail.sh
done email has been sent
maha@maha-Precision-7510:~$ mail
'/var/mail/maha": 3 messages 3 new
>N
   1 maha
                         Mon Feb 10 21:42 17/556 Get responsene
N 2 maha
                         Mon Feb 10 21:45 17/556 Get responsene
N 3 maha
                         Tue Feb 11 14:52 17/556 Get responsene
Return-Path: <maha@maha-Precision-7510>
X-Original-To: maha
Delivered-To: maha@maha-Precision-7510
Received: by maha-Precision-7510 (Postfix, from userid 1000)
        id B72B2D001B1; Mon, 10 Feb 2025 21:42:03 +0200 (EET)
Subject: Get responsene
To: maha@maha-Precision-7510
User-Agent: mail (GNU Mailutils 3.17)
Date: Mon, 10 Feb 2025 21:42:03 +0200
Message-Id: <20250210194203.B72B2D001B1@maha-Precision-7510>
From: maha <maha@maha-Precision-7510>
Dear CEO,
I hope this you are doing well.
we would like to invite you to our product launch.
Best redards.
Maha
[1]+ Stopped
                             mail
maha@maha-Precision-7510:~$
```

GNU nano 8.1 Par CEO, Files: this you are doing well. we would like to invite you to our product launch. Best redards. Maha

 \pm

```
GNU nano 8.1

mail_temp="mtemplate"
for i in $(cut -d: -f1 /etc/passwd);
do

mail -s "Get responsene" "$i" < "$mail_temp"
done
echo "done email has been sent"
```

6- \oplus Terminal Q ≡ - -GNU nano 8.1 chkmail.sh * mfileE="/var/mail/\$USER" while true if [[-f "\$mfileE"]] if find "\$mfileE" -mmin -0.166 2>/dev/null echo "New mail received!" echo " No mail file found!" sleep 10 ^G Help ^O Write Out ^F Where Is ^K Cut ^T Execute ^C Location ^R Read File ^\ Replace ^U Paste ^J Justify Go To Line

```
^Cmaha@maha-Precision-7510:~$ nano chkmail.sh
maha@maha-Precision-7510:~$ ./chkmail.sh
New mail received!
New mail received!
```

7-

```
maha@maha-Precision-7510:~$ ksh --version

Command 'ksh' not found, but can be installed with:

sudo apt install ksh93u+m # version 1.0.8-1.2, or

sudo apt install mksh # version 59c-37

maha@maha-Precision-7510:~$ sudo apt install ksh93u+m

[sudo] password for maha:

Installing:
   ksh93u+m
```

```
maha@maha-Precision-7510:~$ nano test.sh
maha@maha-Precision-7510:~$ chmod +x test.sh
maha@maha-Precision-7510:~$ ksh test.sh

1
maha@maha-Precision-7510:~$
```

```
Q = - -
⊕
                            Terminal
GNU nano 8.1
                             test.sh *
typeset -i n1
typeset -i n2
n1=1
n2=1
while test $n1 -eq $n2
  n2=$((n2+1))
  echo $n1
  if [ $n1 -gt $n2 ]
    break
  else
  n1=$((n1+1))
  echo $n2
         ^G Help
```

```
maha@maha-Precision-7510:~$ nano menu.sh
maha@maha-Precision-7510:~$ chmod +x menu.sh
maha@maha-Precision-7510:~$ ./menu.sh
managmana
1) ls
2) ls -a
3) exit
#? 2
                                            Downloads
                                                                                   mytest.sh
                                                              Music
                                                                                                                    snap
                                                               mybackup.sh
                                                                                  name.txt
                                                                                                                     .ssh
 '1 sudo apt update sudo.txt'
                                                              mycase2.sh
                                                                                                                     .sudo_as_admin_successful
 awk_script.awk
                                                                                    Pictures
                                                                                                                     Templates
 backup_dir
                                            .gitconfig
                                                                                                                    .var
Videos
 .bash_history
                                            .gnupg
                                                               mychmod.sh
 .cache
chkmail.sh
                                                              mycp.sh
myinfo.sh
                                            greet.sh
                                                                                   README.md
                                                              my-lab-repo
myls.sh
 .config
                                                                                                                     .zcompdump
                                                                                                                    .zcompdump-maha-Precision-7510-5.9
.zcompdump-maha-Precision-7510-5.9.zwc
 Desktop
                                                               mymail.sh
                                            mtemplate
 Documents
1) ls
2) ls -a
3) exit
#? 3
..
Exiting...
maha@maha-Precision-7510:~$ █
```

9-

```
© | Terminal | Physics |
```

```
Terminal

maha@maha-Precision-7510:~$ nano myarr.sh
maha@maha-Precision-7510:~$ chmod +x myarr.sh
maha@maha-Precision-7510:~$ ./myarr.sh
Enter the number of elements in the array:
5
```

```
The array elements are:
5 22 66 30 78
maha@maha-Precision-7510:~$
```

```
maha@maha-Precision-7510:~$ nano myavg.sh
maha@maha-Precision-7510:~$ chmod +x myavg.sh
maha@maha-Precision-7510:~$ ./myavg.sh
Enter your numbers:
5
66
4
8
The average of the numbers is: 20.75
maha@maha-Precision-7510:~$
```

11-

maha@maha-Precision-7510:~\$ nano func.sh maha@maha-Precision-7510:~\$./func.sh Square of 5: 25 Square of 2.5: 6.2 Square of 10: 100 49 mysq succeeded maha@maha-Precision-7510:~\$