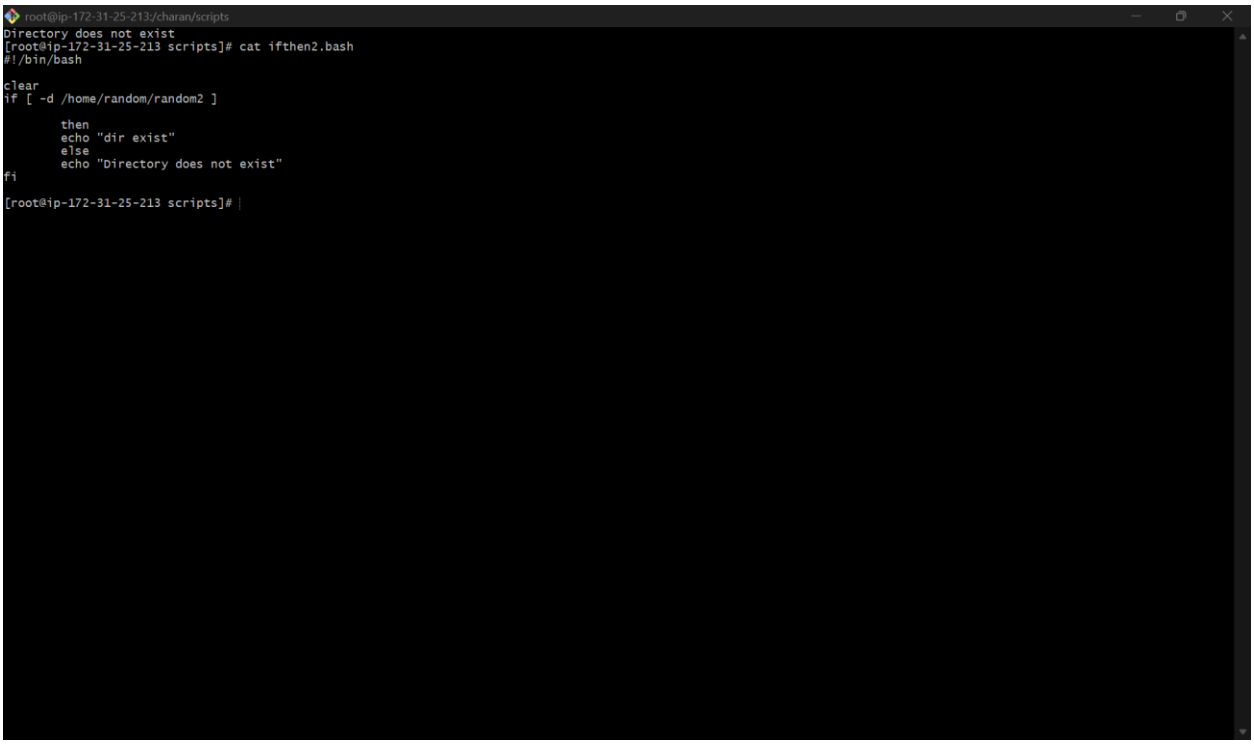
Creating a bash script to check if a directory is available or not

```
#!/bin/bash

clear

if [ -d /home/random/random2 ]

        then

        echo "dir exist"

        else

        echo "Directory does not exist"

Fi
```



Creating a bash script to create multiple files

#!/bin/bash

#creating multiple files

a=file.txt

b=file1.txt

c=file2.txt

echo

touch "$a" "$b" "$c"

```
root@ip-172-31-25-213:/charan/scripts
-rwxr-xr-x. 1 root root 133 May 14 09:26  readinput
-rwxr-xr-x. 1 root root 156 May 14 09:29  runcommandswithin
-rwxr-xr-x. 1 root root  82 May 14 09:08  smalltask
-rwxr-xr-x. 1 root root 163 May 15 07:31  stateofbackup.bash
-rwxr-xr-x. 1 root root 119 May 14 09:36  variables
[root@ip-172-31-25-213 scripts]# rm
rm: missing operand
Try 'rm --help' for more information.
[root@ip-172-31-25-213 scripts]# rm 'file.txt file1.txt file2.txt'
rm: remove regular empty file 'file.txt file1.txt file2.txt'? y
[root@ip-172-31-25-213 scripts]# vi multfiles
[root@ip-172-31-25-213 scripts]# ./multfiles

[root@ip-172-31-25-213 scripts]# ll
total 100
-rw-r--r--. 1 root root  91 May 15 09:40 1
-rwxr-xr-x. 1 root root 219 May 14 09:15 basicvariables
-rwxr-xr-x. 1 root root 345 May 15 07:29 case.bash
-rwxr-xr-x. 1 root root 323 May 14 11:28 copy
-rwxr-xr-x. 1 root root  95 May 15 07:49 dowhile.bash
-rwxr-xr-x. 1 root root 243 May 15 07:51 dowhile2.bash
-rw-r--r--. 1 root root   0 May 15 09:43 file.txt
-rw-r--r--. 1 root root   0 May 15 09:43 file1.txt
-rw-r--r--. 1 root root   0 May 15 09:43 file2.txt
-rwxr-xr-x. 1 root root  65 May 15 07:36 forloop.bash
-rwxr-xr-x. 1 root root  65 May 15 07:40 forloop2.bash
-rwxr-xr-x. 1 root root  50 May 15 07:41 forloop3.bash
-rwxr-xr-x. 1 root root  47 May 15 07:43 forloop4.bash
-rwxr-xr-x. 1 root root  89 May 15 07:44 forloop5.bash
-rwxr-xr-x. 1 root root 115 May 15 07:46 forloop6.bash
-rwxr-xr-x. 1 root root  57 May 14 08:57 hello
-rwxr-xr-x. 1 root root 309 May 14 10:31 ifthen
-rwxr-xr-x. 1 root root 103 May 15 07:55 ifthen.bash
-rwxr-xr-x. 1 root root 146 May 15 09:33 ifthen2.bash
-rwxr-xr-x. 1 root root 150 May 15 07:59 ifthen3.bash
-rwxr-xr-x. 1 root root 272 May 15 08:00 ifthen4.bash
-rwxr-xr-x. 1 root root 396 May 14 09:53 inputperformtask
-rwxr-xr-x. 1 root root 100 May 15 09:43 multfiles
-rwxr-xr-x. 1 root root 133 May 14 09:26 readinput
-rwxr-xr-x. 1 root root 156 May 14 09:29 runcommandswithin
-rwxr-xr-x. 1 root root  82 May 14 09:08 smalltask
-rwxr-xr-x. 1 root root 163 May 15 07:31 stateofbackup.bash
-rwxr-xr-x. 1 root root 119 May 14 09:36 variables
[root@ip-172-31-25-213 scripts]# cat multfiles
#!/bin/bash

#creating multiple files

a=file.txt
b=file1.txt
c=file2.txt
echo
touch "$a" "$b" "$c"
[root@ip-172-31-25-213 scripts]#
```

Creating a bash script to take a backup of a directory

#!/bin/bash

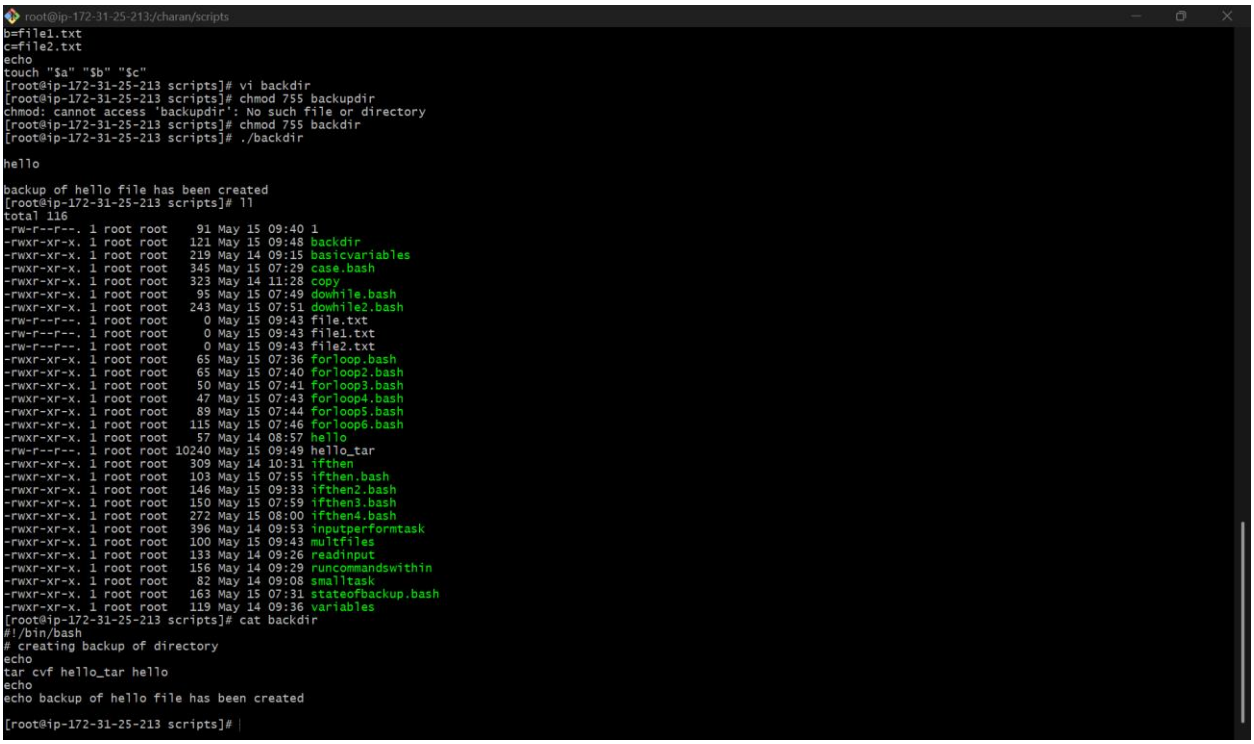
creating backup of directory

echo

tar cvf hello_tar hello

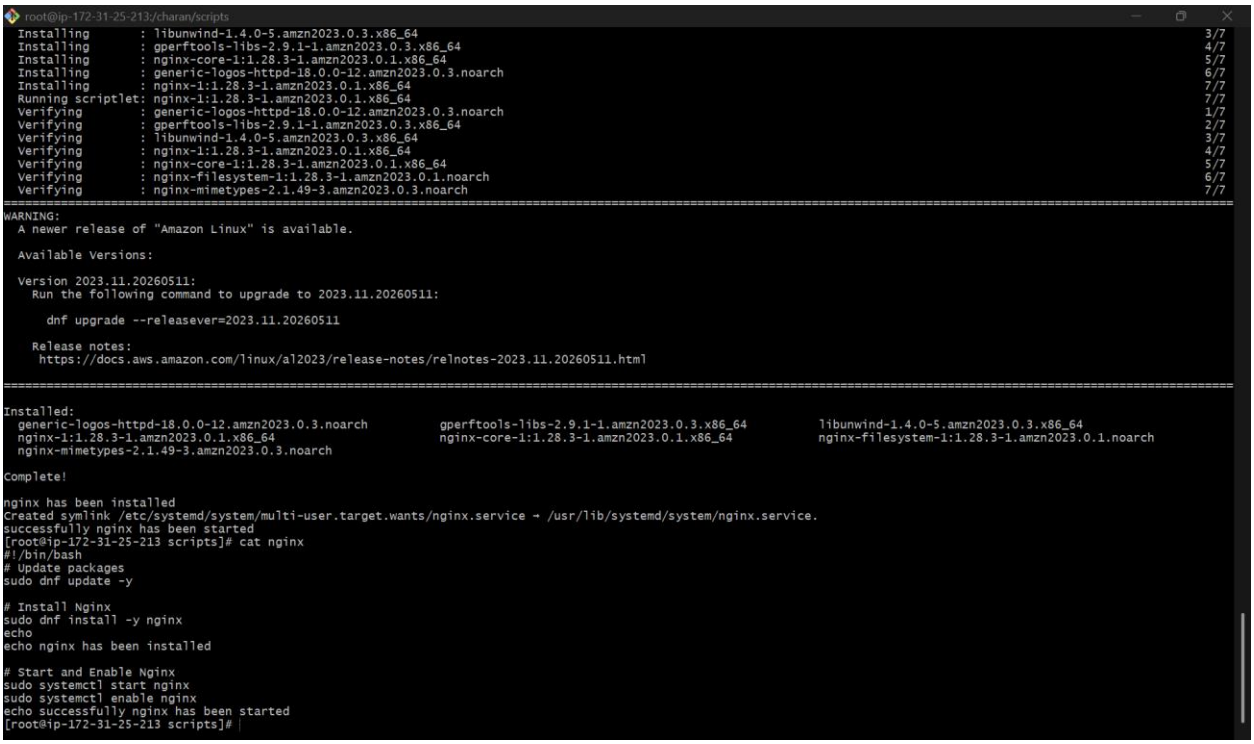
echo

echo backup of hello file has been created



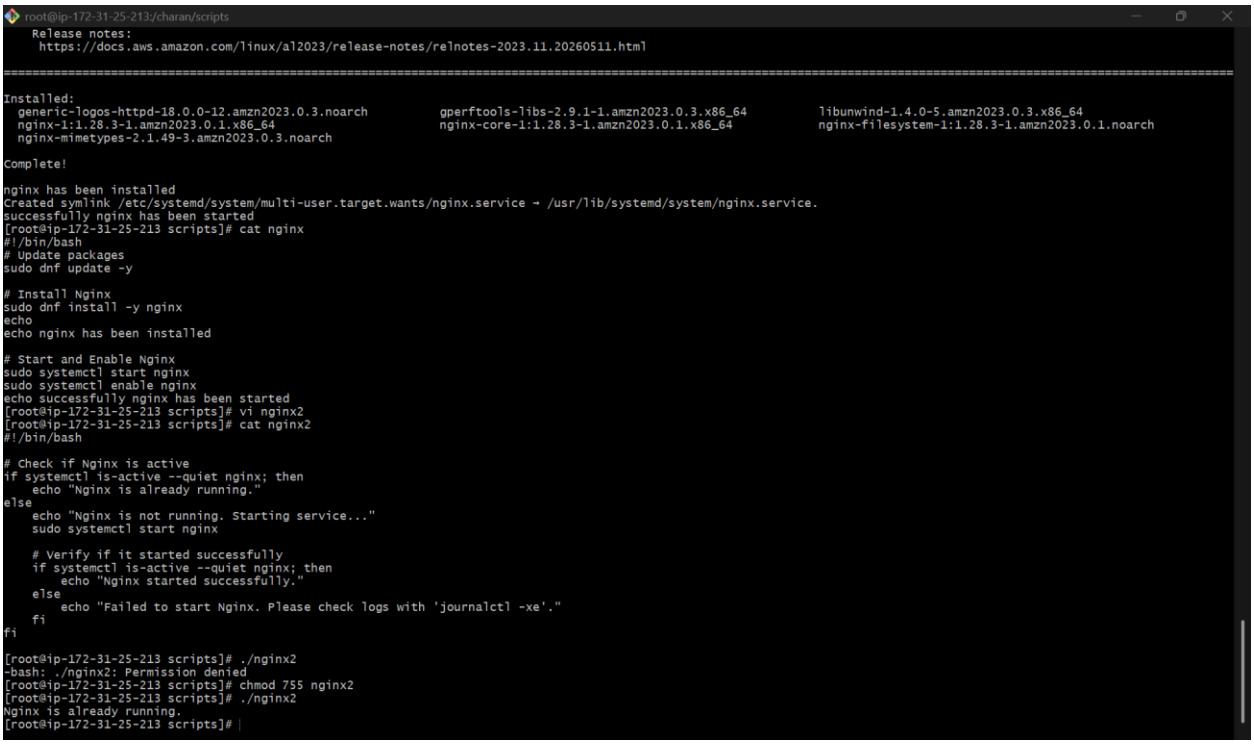
```
root@ip-172-31-25-213:/charan/scripts
b=file1.txt
c=file2.txt
echo
touch "$a" "$b" "$c"
[root@ip-172-31-25-213 scripts]# vi backdir
[root@ip-172-31-25-213 scripts]# chmod 755 backupdir
chmod: cannot access 'backupdir': No such file or directory
[root@ip-172-31-25-213 scripts]# chmod 755 backdir
[root@ip-172-31-25-213 scripts]# ./backdir

hello

backup of hello file has been created
[root@ip-172-31-25-213 scripts]# ll
total 116
-rw-r--r--. 1 root root    91 May 15 09:40 1
-rwxr-xr-x. 1 root root   121 May 15 09:48 backdir
-rwxr-xr-x. 1 root root   219 May 14 09:15 basicvariables
-rwxr-xr-x. 1 root root   345 May 15 07:29 case.bash
-rwxr-xr-x. 1 root root   323 May 14 11:28 copy
-rwxr-xr-x. 1 root root    95 May 15 07:49 dowhile.bash
-rwxr-xr-x. 1 root root   243 May 15 07:51 dowhile2.bash
-rw-r--r--. 1 root root     0 May 15 09:43 file.txt
-rw-r--r--. 1 root root     0 May 15 09:43 file1.txt
-rw-r--r--. 1 root root     0 May 15 09:43 file2.txt
-rwxr-xr-x. 1 root root    65 May 15 07:36 forloop.bash
-rwxr-xr-x. 1 root root    65 May 15 07:40 forloop2.bash
-rwxr-xr-x. 1 root root    50 May 15 07:41 forloop3.bash
-rwxr-xr-x. 1 root root    47 May 15 07:43 forloop4.bash
-rwxr-xr-x. 1 root root    89 May 15 07:44 forloop5.bash
-rwxr-xr-x. 1 root root   115 May 15 07:46 forloop6.bash
-rwxr-xr-x. 1 root root    57 May 14 08:57 hello
-rw-r--r--. 1 root root 10240 May 15 09:49 hello_tar
-rwxr-xr-x. 1 root root   309 May 14 10:31 ifthen
-rwxr-xr-x. 1 root root   103 May 15 07:55 ifthen.bash
-rwxr-xr-x. 1 root root   146 May 15 09:33 ifthen2.bash
-rwxr-xr-x. 1 root root   150 May 15 07:59 ifthen3.bash
-rwxr-xr-x. 1 root root   272 May 15 08:00 ifthen4.bash
-rwxr-xr-x. 1 root root   396 May 14 09:53 inputperformtask
-rwxr-xr-x. 1 root root   100 May 15 09:43 multfiles
-rwxr-xr-x. 1 root root   133 May 14 09:26 readinput
-rwxr-xr-x. 1 root root   156 May 14 09:29 runcommandswithin
-rwxr-xr-x. 1 root root    82 May 14 09:08 smalltask
-rwxr-xr-x. 1 root root   163 May 15 07:31 stateofbackup.bash
-rwxr-xr-x. 1 root root   119 May 14 09:36 variables
[root@ip-172-31-25-213 scripts]# cat backdir
#!/bin/bash
# creating backup of directory
echo
tar cvf hello_tar hello
echo
echo backup of hello file has been created

[root@ip-172-31-25-213 scripts]#
```

```
#!/bin/bash

# Update packages

sudo dnf update -y

# Install Nginx

sudo dnf install -y nginx

echo

echo nginx has been installed

# Start and Enable Nginx

sudo systemctl start nginx

sudo systemctl enable nginx

echo successfully nginx has been started
```




```
#!/bin/bash
```

```
# Check if Nginx is active
if systemctl is-active --quiet nginx; then
    echo "Nginx is already running."
else
    echo "Nginx is not running. Starting service..."
    sudo systemctl start nginx
    # Verify if it started successfully
    if systemctl is-active --quiet nginx; then
        echo "Nginx started successfully."
    else
        echo "Failed to start Nginx. Please check logs with 'journalctl -xe'."
    Fi
fi
```



Creating a bash script to check if a directory exists, if not then create a directory.

```
#!/bin/bash

# creating ascript to check a direc exits if not make a dir

echo name a direct to check

read name

if [ -d $name ]

then

        echo dir alrdy exists

else

       mkdir $name

fi

echo

echo new $name dir has been created
```

```
root@ip-172-31-25-213:/charan/scripts
grand

new grand dir has been created
[root@ip-172-31-25-213 scripts]# ll -ltr
total 128
-rwxr-xr-x. 1 root root    57 May 14 08:57 hello
-rwxr-xr-x. 1 root root    82 May 14 09:08 smalltask
-rwxr-xr-x. 1 root root   219 May 14 09:15 basicvariables
-rwxr-xr-x. 1 root root   133 May 14 09:26 readinput
-rwxr-xr-x. 1 root root   156 May 14 09:29 runcommandswithin
-rwxr-xr-x. 1 root root   119 May 14 09:36 variables
-rwxr-xr-x. 1 root root   396 May 14 09:53 inputperformtask
-rwxr-xr-x. 1 root root   309 May 14 10:31 ifthen
-rwxr-xr-x. 1 root root   323 May 14 11:28 copy
-rwxr-xr-x. 1 root root   345 May 15 07:29 case.bash
-rwxr-xr-x. 1 root root   163 May 15 07:31 stateofbackup.bash
-rwxr-xr-x. 1 root root    65 May 15 07:36 forloop.bash
-rwxr-xr-x. 1 root root    65 May 15 07:40 forloop2.bash
-rwxr-xr-x. 1 root root    50 May 15 07:41 forloop3.bash
-rwxr-xr-x. 1 root root    47 May 15 07:43 forloop4.bash
-rwxr-xr-x. 1 root root    89 May 15 07:44 forloop5.bash
-rwxr-xr-x. 1 root root   115 May 15 07:46 forloop6.bash
-rwxr-xr-x. 1 root root    95 May 15 07:49 dowhile.bash
-rwxr-xr-x. 1 root root   243 May 15 07:51 dowhile2.bash
-rwxr-xr-x. 1 root root   103 May 15 07:55 ifthen.bash
-rwxr-xr-x. 1 root root   150 May 15 07:59 ifthen3.bash
-rwxr-xr-x. 1 root root   272 May 15 08:00 ifthen4.bash
-rwxr-xr-x. 1 root root   146 May 15 09:33 ifthen2.bash
-rw-r--r--. 1 root root    91 May 15 09:40 1
-rwxr-xr-x. 1 root root   100 May 15 09:43 multfiles
-rw-r--r--. 1 root root     0 May 15 09:43 file2.txt
-rw-r--r--. 1 root root     0 May 15 09:43 file1.txt
-rw-r--r--. 1 root root     0 May 15 09:43 file.txt
-rwxr-xr-x. 1 root root   121 May 15 09:48 backdir
-rw-r--r--. 1 root root 10240 May 15 09:49 hello_tar
-rwxr-xr-x. 1 root root   249 May 15 09:54 nginx
-rwxr-xr-x. 1 root root   443 May 15 10:03 nginx2
-rwxr-xr-x. 1 root root   218 May 15 10:26 mkdir
drwxr-xr-x. 2 root root     6 May 15 10:26 grand
[root@ip-172-31-25-213 scripts]# cat mkdir
#!/bin/bash
# creating ascript to check a direc exits if not make a dir
echo name a direct to check
read name
if [ -d $name ]
then
        echo dir alrdy exists
else
        mkdir $name
fi
echo
echo new $name dir has been created

[root@ip-172-31-25-213 scripts]#
```

#!/bin/bash

#deleting last three lines in a file we can use sed -i (1,15d) filename if file has 15 lines herer i am writing script to delte lines from an unknown file

#

#

#

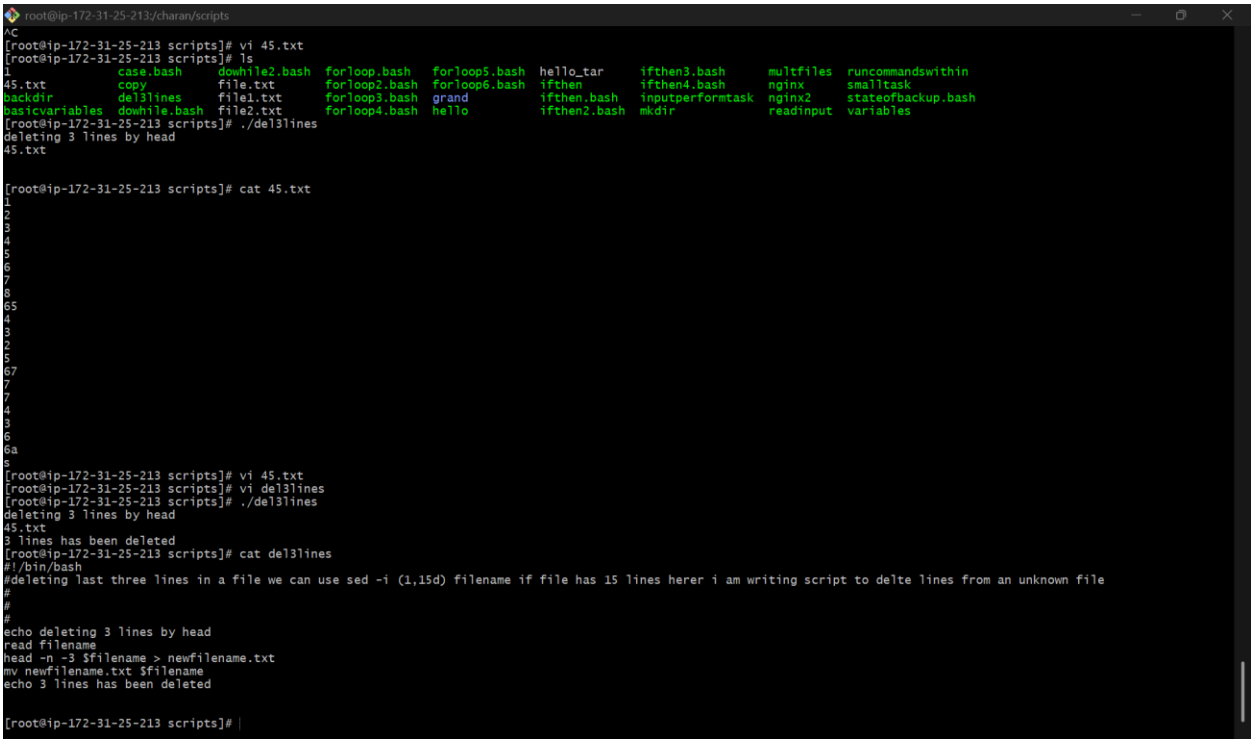
echo deleting 3 lines by head

read filename

head -n -3 $filename > newfilename.txt

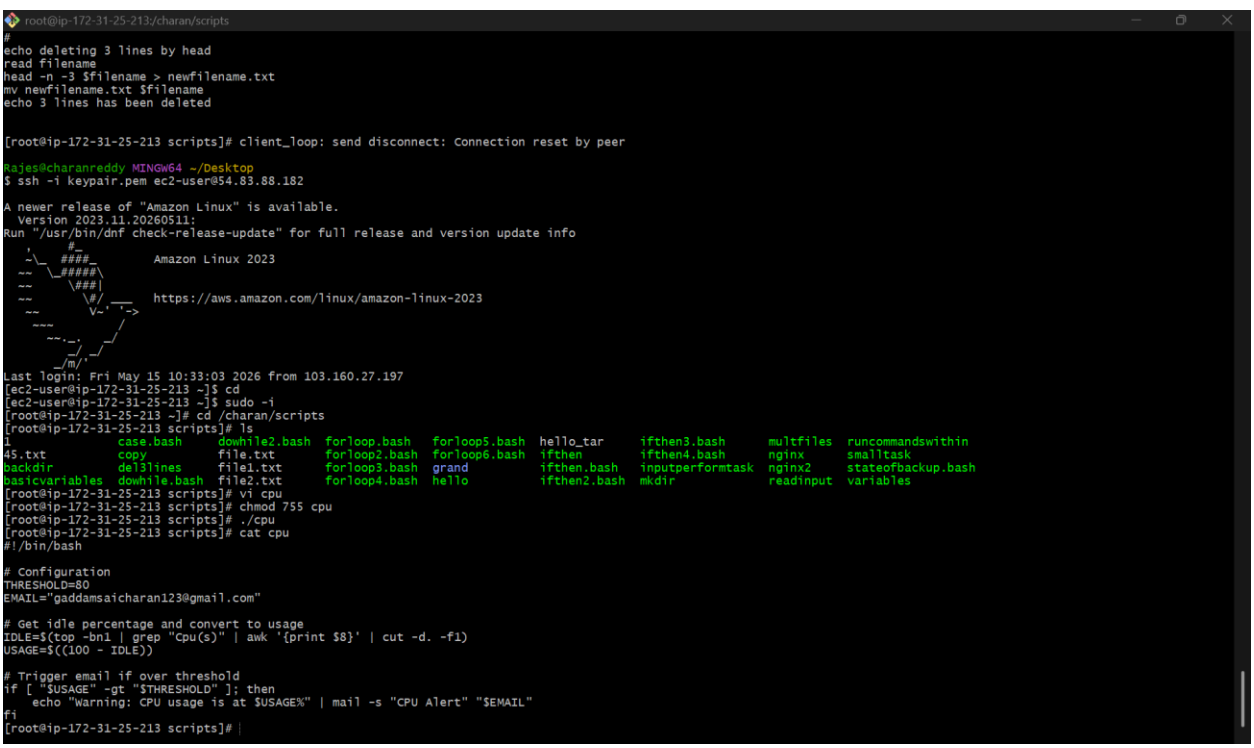
mv newfilename.txt $filename

echo 3 lines has been deleted



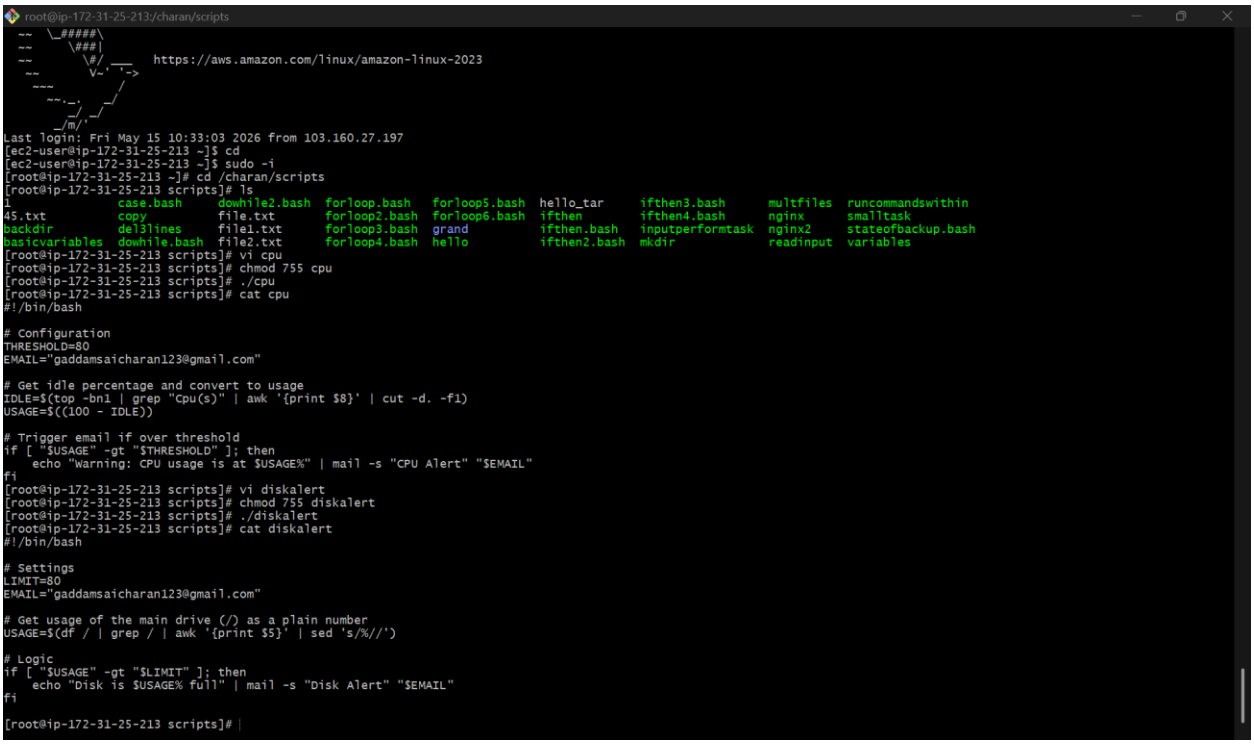
Bash script to monitor cpu and if it is more than 80% then send email notification

```bash
#!/bin/bash

# Configuration

THRESHOLD=80

EMAIL="gaddamsaicharan123@gmail.com"

# Get idle percentage and convert to usage

IDLE=$(top -bn1 | grep "Cpu(s)" | awk '{print $8}' | cut -d. -f1)

USAGE=$((100 - IDLE))

# Trigger email if over threshold

if [ "$USAGE" -gt "$THRESHOLD" ]; then

    echo "Warning: CPU usage is at $USAGE%" | mail -s "CPU Alert" "$EMAIL"

fi
```



Bash script to monitor disk space and if it is more than 80% then send email notification

```
#!/bin/bash

# Settings

LIMIT=80

EMAIL="gaddamsaicharan123@gmail.com"

# Get usage of the main drive (/) as a plain number

USAGE=$(df / | grep / | awk '{print $5}' | sed 's/%//')

# Logic

if [ "$USAGE" -gt "$LIMIT" ]; then

    echo "Disk is $USAGE% full" | mail -s "Disk Alert" "$EMAIL"

Fi
```



Bash script to monitor memory and if it is more than 80% then send email notification

Crontab Entries

1. April 5th Midnight
   0 0 5 4 * /charan/scripts/hello
2. 5th of Every November, January, June if it is a Thursday
   0 0 5 1,6,11 * ["$(date '+\%u')" -eq 4] && /charan/scripts/hello
3. At 05 and 27th minutes of 9, 10, 11 hours every day
   05,27 9-11 * * * /charan/scripts/hello
4. 34 minutes of 9th hour on15th August
   34 9 15 7 * /charan/scripts/hello
5. Every mignight
   0 0 * * * /charan/scripts/hello
6. Every Weekend (Saturday night 11:59 PM)
   59 11 * * 6 /charan/scripts/hello
7. every reboot
   @reboot /charan/scripts/hello

```
root@ip-172-31-25-213:/charan/scripts
59 11 * * 6 /charan/scripts/hello
~
-- INSERT --                                                    1,34          All
```

```
root@ip-172-31-25-213:/charan/scripts
-rwxr-xr-x. 1 root root   264 May 15 11:33 tomcatinstall
-rwxr-xr-x. 1 root root   119 May 14 09:36 variables
[root@ip-172-31-25-213 scripts]# vi crontab3
[root@ip-172-31-25-213 scripts]# chmod 755 crontab3
[root@ip-172-31-25-213 scripts]# ll
total 168
-rw-r--r--. 1 root root    91 May 15 09:40 1
-rw-r--r--. 1 root root    38 May 15 10:52 45.txt
-rwxr-xr-x. 1 root root   121 May 15 09:48 backdir
-rwxr-xr-x. 1 root root   219 May 14 09:15 basicvariables
-rwxr-xr-x. 1 root root   345 May 15 07:29 case.bash
-rwxr-xr-x. 1 root root   323 May 14 11:28 copy
-rwxr-xr-x. 1 root root   363 May 15 11:19 cpu
-rw-r--r--. 1 root root    16 May 15 11:44 crontab
-rwxr-xr-x. 1 root root    67 May 15 11:54 crontab1
-rwxr-xr-x. 1 root root    39 May 15 11:57 crontab2
-rwxr-xr-x. 1 root root    35 May 15 12:01 crontab3
-rwxr-xr-x. 1 root root   319 May 15 10:52 del3lines
-rwxr-xr-x. 1 root root   291 May 15 11:27 diskalert
-rwxr-xr-x. 1 root root    95 May 15 07:49 dowhile.bash
-rwxr-xr-x. 1 root root   243 May 15 07:51 dowhile2.bash
-rw-r--r--. 1 root root     0 May 15 09:43 file.txt
-rw-r--r--. 1 root root     0 May 15 09:43 file1.txt
-rw-r--r--. 1 root root     0 May 15 09:43 file2.txt
-rwxr-xr-x. 1 root root    65 May 15 07:36 forloop.bash
-rwxr-xr-x. 1 root root    65 May 15 07:40 forloop2.bash
-rwxr-xr-x. 1 root root    50 May 15 07:41 forloop3.bash
-rwxr-xr-x. 1 root root    47 May 15 07:43 forloop4.bash
-rwxr-xr-x. 1 root root    89 May 15 07:44 forloop5.bash
-rwxr-xr-x. 1 root root   115 May 15 07:46 forloop6.bash
drwxr-xr-x. 2 root root     6 May 15 10:26 grand
-rwxr-xr-x. 1 root root    57 May 14 08:57 hello
-rw-r--r--. 1 root root 10240 May 15 09:49 hello_tar
-rwxr-xr-x. 1 root root   309 May 14 10:31 ifthen
-rwxr-xr-x. 1 root root   103 May 15 07:55 ifthen.bash
-rwxr-xr-x. 1 root root   146 May 15 09:33 ifthen2.bash
-rwxr-xr-x. 1 root root   150 May 15 07:59 ifthen3.bash
-rwxr-xr-x. 1 root root   272 May 15 08:00 ifthen4.bash
-rwxr-xr-x. 1 root root   396 May 14 09:53 inputperformtask
-rw-r--r--. 1 root root   291 May 15 11:31 memory
-rwxr-xr-x. 1 root root   218 May 15 10:26 mkdir
-rwxr-xr-x. 1 root root   100 May 15 09:43 multfiles
-rwxr-xr-x. 1 root root   249 May 15 09:54 nginx
-rwxr-xr-x. 1 root root   443 May 15 10:03 nginx2
-rwxr-xr-x. 1 root root   133 May 14 09:26 readinput
-rwxr-xr-x. 1 root root   156 May 14 09:29 runcommandswithin
-rwxr-xr-x. 1 root root    82 May 14 09:08 smalltask
-rwxr-xr-x. 1 root root   163 May 15 07:31 stateofbackup.bash
-rwxr-xr-x. 1 root root   264 May 15 11:33 tomcatinstall
-rwxr-xr-x. 1 root root   119 May 14 09:36 variables
[root@ip-172-31-25-213 scripts]# cat crontab3
34 9 15 7 * /charan/scripts/hello

[root@ip-172-31-25-213 scripts]#
```

```
root@ip-172-31-25-213:/charan/scripts
-rwxr-xr-x. 1 root root    57 May 14 08:57 hello
-rw-r--r--. 1 root root 10240 May 15 09:49 hello_tar
-rwxr-xr-x. 1 root root   309 May 14 10:31 ifthen
-rwxr-xr-x. 1 root root   103 May 15 07:55 ifthen.bash
-rwxr-xr-x. 1 root root   146 May 15 09:33 ifthen2.bash
-rwxr-xr-x. 1 root root   150 May 15 07:59 ifthen3.bash
-rwxr-xr-x. 1 root root   272 May 15 08:00 ifthen4.bash
-rwxr-xr-x. 1 root root   396 May 14 09:53 inputperformtask
-rw-r--r--. 1 root root   291 May 15 11:31 memory
-rwxr-xr-x. 1 root root   218 May 15 10:26 mkdir
-rwxr-xr-x. 1 root root   100 May 15 09:43 multfiles
-rwxr-xr-x. 1 root root   249 May 15 09:54 nginx
-rwxr-xr-x. 1 root root   443 May 15 10:03 nginx2
-rwxr-xr-x. 1 root root   133 May 14 09:26 readinput
-rwxr-xr-x. 1 root root   156 May 14 09:29 runcommandswithin
-rwxr-xr-x. 1 root root    82 May 14 09:08 smalltask
-rwxr-xr-x. 1 root root   163 May 15 07:31 stateofbackup.bash
-rwxr-xr-x. 1 root root   264 May 15 11:33 tomcatinstall
-rwxr-xr-x. 1 root root   119 May 14 09:36 variables
[root@ip-172-31-25-213 scripts]# vi crontab
[root@ip-172-31-25-213 scripts]# cat hello
#!/bin/bash
# simple output script
echo
echo hello xbox
[root@ip-172-31-25-213 scripts]# cat crontab
0 0 5 4 * hello
[root@ip-172-31-25-213 scripts]# vi crontab1
[root@ip-172-31-25-213 scripts]# chmod crontab1
chmod: missing operand after 'crontab1'
Try 'chmod --help' for more information.
[root@ip-172-31-25-213 scripts]# chmod 755 crontab1
[root@ip-172-31-25-213 scripts]# cat crontab1
0 0 5 1,6,11 * [ "$(date '+\%u')" -eq 4 ] && /charan/scripts/hello
[root@ip-172-31-25-213 scripts]# vi crontab2
[root@ip-172-31-25-213 scripts]# chmod 755 crontab2
[root@ip-172-31-25-213 scripts]# cat crontab2
05,27 9-11 * * * /charan/scripts/hello
[root@ip-172-31-25-213 scripts]# ]ll
-bash: ]ll: command not found
[root@ip-172-31-25-213 scripts]# ll
total 164
-rw-r--r--. 1 root root    91 May 15 09:40 1
-rw-r--r--. 1 root root    38 May 15 10:52 45.txt
-rwxr-xr-x. 1 root root   121 May 15 09:48 backdir
-rwxr-xr-x. 1 root root   219 May 14 09:15 basicvariables
-rwxr-xr-x. 1 root root   345 May 15 07:29 case.bash
-rwxr-xr-x. 1 root root   323 May 14 11:28 copy
-rwxr-xr-x. 1 root root   363 May 15 11:19 cpu
-rw-r--r--. 1 root root    16 May 15 11:44 crontab
-rwxr-xr-x. 1 root root    67 May 15 11:54 crontab1
-rwxr-xr-x. 1 root root    39 May 15 11:57 crontab2
-rwxr-xr-x. 1 root root   319 May 15 10:52 del3lines
-rwxr-xr-x. 1 root root   291 May 15 11:27 diskalert
```

```
root@ip-172-31-25-213:/charan/scripts
[root@ip-172-31-25-213 scripts]# vi nginx
[root@ip-172-31-25-213 scripts]# vi tomcatinstall
[root@ip-172-31-25-213 scripts]# chmod 755 tomcatinstall
[root@ip-172-31-25-213 scripts]# ll
total 152
-rw-r--r--. 1 root root    91 May 15 09:40 1
-rw-r--r--. 1 root root    38 May 15 10:52 45.txt
-rwxr-xr-x. 1 root root   121 May 15 09:48 backdir
-rwxr-xr-x. 1 root root   219 May 14 09:15 basicvariables
-rwxr-xr-x. 1 root root   345 May 15 07:29 case.bash
-rwxr-xr-x. 1 root root   323 May 14 11:28 copy
-rwxr-xr-x. 1 root root   363 May 15 11:19 cpu
-rwxr-xr-x. 1 root root   319 May 15 10:52 del3lines
-rwxr-xr-x. 1 root root   291 May 15 11:27 diskalert
-rwxr-xr-x. 1 root root    95 May 15 07:49 dowhile.bash
-rwxr-xr-x. 1 root root   243 May 15 07:51 dowhile2.bash
-rw-r--r--. 1 root root     0 May 15 09:43 file.txt
-rw-r--r--. 1 root root     0 May 15 09:43 file1.txt
-rw-r--r--. 1 root root     0 May 15 09:43 file2.txt
-rwxr-xr-x. 1 root root    65 May 15 07:36 forloop.bash
-rwxr-xr-x. 1 root root    65 May 15 07:40 forloop2.bash
-rwxr-xr-x. 1 root root    50 May 15 07:41 forloop3.bash
-rwxr-xr-x. 1 root root    47 May 15 07:43 forloop4.bash
-rwxr-xr-x. 1 root root    89 May 15 07:44 forloop5.bash
-rwxr-xr-x. 1 root root   115 May 15 07:46 forloop6.bash
drwxr-xr-x. 2 root root     6 May 15 10:26 grand
-rwxr-xr-x. 1 root root    57 May 14 08:57 hello
-rw-r--r--. 1 root root 10240 May 15 09:49 hello_tar
-rwxr-xr-x. 1 root root   309 May 14 10:31 ifthen
-rwxr-xr-x. 1 root root   103 May 15 07:55 ifthen.bash
-rwxr-xr-x. 1 root root   146 May 15 09:33 ifthen2.bash
-rwxr-xr-x. 1 root root   150 May 15 07:59 ifthen3.bash
-rwxr-xr-x. 1 root root   272 May 15 08:00 ifthen4.bash
-rwxr-xr-x. 1 root root   396 May 14 09:53 inputperformtask
-rw-r--r--. 1 root root   291 May 15 11:31 memory
-rwxr-xr-x. 1 root root   218 May 15 10:26 mkdir
-rwxr-xr-x. 1 root root   100 May 15 09:43 multfiles
-rwxr-xr-x. 1 root root   249 May 15 09:54 nginx
-rwxr-xr-x. 1 root root   443 May 15 10:03 nginx2
-rwxr-xr-x. 1 root root   133 May 14 09:26 readinput
-rwxr-xr-x. 1 root root   156 May 14 09:29 runcommandswithin
-rwxr-xr-x. 1 root root    82 May 14 09:08 smalltask
-rwxr-xr-x. 1 root root   163 May 15 07:31 stateofbackup.bash
-rwxr-xr-x. 1 root root   264 May 15 11:33 tomcatinstall
-rwxr-xr-x. 1 root root   119 May 14 09:36 variables
[root@ip-172-31-25-213 scripts]# vi crontab
[root@ip-172-31-25-213 scripts]# cat hello
#!/bin/bash
# simple output script
echo
echo hello xbox
[root@ip-172-31-25-213 scripts]# cat crontab
0 0 5 4 * hello
[root@ip-172-31-25-213 scripts]#
```

```
root@ip-172-31-25-213:/charan/scripts
-rwxr-xr-x. 1 root root   323 May 14 11:28 copy
-rwxr-xr-x. 1 root root   363 May 15 11:19 cpu
-rw-r--r--. 1 root root    16 May 15 11:44 crontab
-rwxr-xr-x. 1 root root    67 May 15 11:54 crontab1
-rwxr-xr-x. 1 root root    39 May 15 11:57 crontab2
-rwxr-xr-x. 1 root root    35 May 15 12:01 crontab3
-rwxr-xr-x. 1 root root   319 May 15 10:52 del3lines
-rwxr-xr-x. 1 root root   291 May 15 11:27 diskalert
-rwxr-xr-x. 1 root root    95 May 15 07:49 dowhile.bash
-rwxr-xr-x. 1 root root   243 May 15 07:51 dowhile2.bash
-rw-r--r--. 1 root root     0 May 15 09:43 file.txt
-rw-r--r--. 1 root root     0 May 15 09:43 file1.txt
-rw-r--r--. 1 root root     0 May 15 09:43 file2.txt
-rwxr-xr-x. 1 root root    65 May 15 07:36 forloop.bash
-rwxr-xr-x. 1 root root    65 May 15 07:40 forloop2.bash
-rwxr-xr-x. 1 root root    50 May 15 07:41 forloop3.bash
-rwxr-xr-x. 1 root root    47 May 15 07:43 forloop4.bash
-rwxr-xr-x. 1 root root    89 May 15 07:44 forloop5.bash
-rwxr-xr-x. 1 root root   115 May 15 07:46 forloop6.bash
drwxr-xr-x. 2 root root     6 May 15 10:26 grand
-rwxr-xr-x. 1 root root    57 May 14 08:57 hello
-rw-r--r--. 1 root root 10240 May 15 09:49 hello_tar
-rwxr-xr-x. 1 root root   309 May 14 10:31 ifthen
-rwxr-xr-x. 1 root root   103 May 15 07:55 ifthen.bash
-rwxr-xr-x. 1 root root   146 May 15 09:33 ifthen2.bash
-rwxr-xr-x. 1 root root   150 May 15 07:59 ifthen3.bash
-rwxr-xr-x. 1 root root   272 May 15 08:00 ifthen4.bash
-rwxr-xr-x. 1 root root   396 May 14 09:53 inputperformtask
-rw-r--r--. 1 root root   291 May 15 11:31 memory
-rwxr-xr-x. 1 root root   218 May 15 10:26 mkdir
-rwxr-xr-x. 1 root root   100 May 15 09:43 multfiles
-rwxr-xr-x. 1 root root   249 May 15 09:54 nginx
-rwxr-xr-x. 1 root root   443 May 15 10:03 nginx2
-rwxr-xr-x. 1 root root   133 May 14 09:26 readinput
-rwxr-xr-x. 1 root root   156 May 14 09:29 runcommandswithin
-rwxr-xr-x. 1 root root    82 May 14 09:08 smalltask
-rwxr-xr-x. 1 root root   163 May 15 07:31 stateofbackup.bash
-rwxr-xr-x. 1 root root   264 May 15 11:33 tomcatinstall
-rwxr-xr-x. 1 root root   119 May 14 09:36 variables
[root@ip-172-31-25-213 scripts]# cat crontab3
34 9 15 7 * /charan/scripts/hello

[root@ip-172-31-25-213 scripts]# vi crontab4
[root@ip-172-31-25-213 scripts]# chmod 755 crontab4
[root@ip-172-31-25-213 scripts]# cat crontab5
cat: crontab5: No such file or directory
[root@ip-172-31-25-213 scripts]# cat crontab4

59 11 * * 6 /charan/scripts/hello
[root@ip-172-31-25-213 scripts]# vi crontab6
[root@ip-172-31-25-213 scripts]# chmod 755 crontab6
[root@ip-172-31-25-213 scripts]# cat crontab6
@reboot /charan/scripts/hello
[root@ip-172-31-25-213 scripts]#
```

Create a bash script for a **calculator**

```
#!/bin/bash

# Get input

read -p "Enter first number: " n1

read -p "Enter second number: " n2

# Perform math

add=$((n1 + n2))

sub=$((n1 - n2))

mul=$((n1 * n2))

div=$((n1 / n2))

# Show results

echo "Sum: $add"

echo "Diff: $sub"
```

echo "Product: $mul"

echo "Quotient: $div"

```
root@ip-172-31-25-213:/charan/scripts
34 9 15 7 * /charan/scripts/hello

[root@ip-172-31-25-213 scripts]# vi crontab4
[root@ip-172-31-25-213 scripts]# chmod 755 crontab4
[root@ip-172-31-25-213 scripts]# cat crontab5
cat: crontab5: No such file or directory
[root@ip-172-31-25-213 scripts]# cat crontab4

59 11 * * 6 /charan/scripts/hello
[root@ip-172-31-25-213 scripts]# vi crontab6
[root@ip-172-31-25-213 scripts]# chmod 755 crontab6
[root@ip-172-31-25-213 scripts]# cat crontab6
@reboot /charan/scripts/hello
[root@ip-172-31-25-213 scripts]# client_loop: send disconnect: Connection reset by peer

Rajes@charanreddy MINGW64 ~/Desktop
$ ssh -i keypair.pem ec2-user@54.83.88.182

A newer release of "Amazon Linux" is available.
  Version 2023.11.20260511:
Run "/usr/bin/dnf check-release-update" for full release and version update info
       #_
   ~\_  ####_        Amazon Linux 2023
  ~~  \_#####\
  ~~     \###|
  ~~       \#/ ___   https://aws.amazon.com/linux/amazon-linux-2023
   ~~       V~' '->
    ~~~         /
      ~~._.   _/
         _/ _/
       _/m/'
Last login: Fri May 15 11:10:30 2026 from 103.160.27.197
[ec2-user@ip-172-31-25-213 ~]$ SUDO -I
-bash: SUDO: command not found
[ec2-user@ip-172-31-25-213 ~]$ sudo -i
[root@ip-172-31-25-213 ~]# cd /charan/scripts
[root@ip-172-31-25-213 scripts]# ls
1                 copy      crontab3   dowhile.bash   forloop.bash   forloop6.bash  ifthen.bash       memory     readinput           variables
45.txt            cpu       crontab4   dowhile2.bash  forloop2.bash  grand          ifthen2.bash      mkdir      runcommandswithin
backdir           crontab   crontab6   file.txt       forloop3.bash  hello          ifthen3.bash      multfiles  smalltask
basicvariables    crontab1  del3lines  file1.txt      forloop4.bash  hello_tar      ifthen4.bash      nginx      stateofbackup.bash
case.bash         crontab2  diskalert  file2.txt      forloop5.bash  ifthen         inputperformtask  nginx2     tomcatinstall
[root@ip-172-31-25-213 scripts]# vi calculator
[root@ip-172-31-25-213 scripts]# chmmod 755 calculator
-bash: chmmod: command not found
[root@ip-172-31-25-213 scripts]# chmod 755 calculator
[root@ip-172-31-25-213 scripts]# ./calculator
Enter first number: 10
Enter second number: 9
Sum: 19
Diff: 1
Product: 90
Quotient: 1
[root@ip-172-31-25-213 scripts]#
```