

Assignment 7

Roll no 422136

Sec a

More command

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

```
# Check if a filename is provided as an argument
```

```
if [ $# -eq 0 ]; then
```

```
    echo "Usage: $0 <example.txt>"
```

```
    exit 1
```

```
fi
```

```
# Check if the file exists
```

```
if [ ! -f "$1" ]; then
```

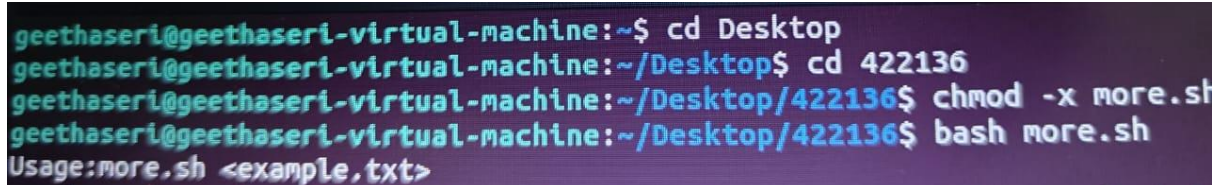
```
    echo "File not found: $1"
```

```
    exit 1
```

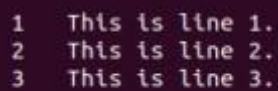
```
fi
```

```
# Use the 'more' command to display the file contents
```

```
more "$1"
```



```
geethaseri@geethaseri-virtual-machine:~$ cd Desktop
geethaseri@geethaseri-virtual-machine:~/Desktop$ cd 422136
geethaseri@geethaseri-virtual-machine:~/Desktop/422136$ chmod -x more.sh
geethaseri@geethaseri-virtual-machine:~/Desktop/422136$ bash more.sh
Usage:more.sh <example.txt>
```



```
1 This is line 1.
2 This is line 2.
3 This is line 3.
```

NL command

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

```
# Check if a filename is provided as an argument
```

```
if [ $# -eq 0 ]; then
```

```
    echo "Usage: $0 <example.txt>"
```

```
    exit 1
```

```
fi
```

```
# Check if the file exists
```

```
if [ ! -f "$1" ]; then
```

```
echo "File not found: $1"
```

```
    exit 1
```

```
fi
```

```
# Use the 'nl' command to add line numbers to the file
```

```
nl "$1"
```

nice command

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

```
# Run a command with different scheduling priorities using 'nice'
```

```
# Run a command with default priority (0)
```

```
echo "Executing command with default priority:"
```

```
nice ./my_command
```

```
# Run a command with higher priority (lower nice value)
```

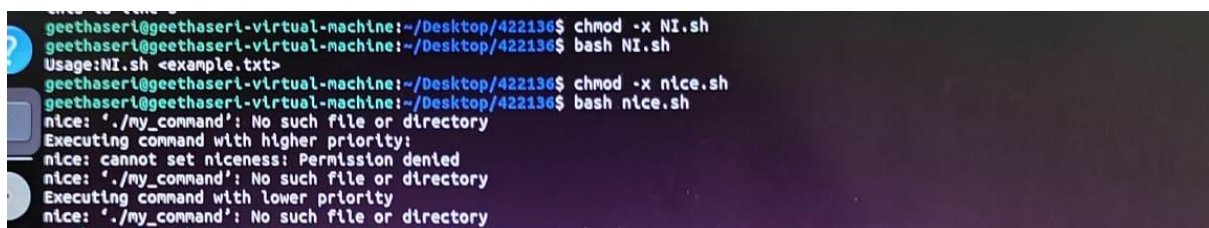
```
echo "Executing command with higher priority:"
```

```
nice -n -5 ./my_command
```

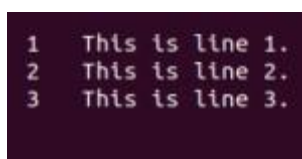
```
# Run a command with lower priority (higher nice value)
```

```
echo "Executing command with lower priority:"
```

```
nice -n 5 ./my_command
```



```
geethaseri@geethaseri-virtual-machine:~/Desktop/422136$ chmod -x NI.sh
geethaseri@geethaseri-virtual-machine:~/Desktop/422136$ bash NI.sh
Usage:NI.sh <example.txt>
geethaseri@geethaseri-virtual-machine:~/Desktop/422136$ chmod -x nice.sh
geethaseri@geethaseri-virtual-machine:~/Desktop/422136$ bash nice.sh
nice: './my_command': No such file or directory
Executing command with higher priority:
nice: cannot set niceness: Permission denied
nice: './my_command': No such file or directory
Executing command with lower priority:
nice: './my_command': No such file or directory
```



```
1 This is line 1.
2 This is line 2.
3 This is line 3.
```

Password command

```
#!/bin/bash

# Shell script to change a user's password using passwd command

# Prompt user to enter the username for which the password needs to be changed
read -p "Enter the username: " username

# Check if the user exists
if id "$username" &>/dev/null; then

    # If the user exists, change the password

    echo "Changing password for user $username..."

    passwd "$username"

else

    # If the user does not exist, display an error message

    echo "Error: User $username does not exist."

fi
```

pr command

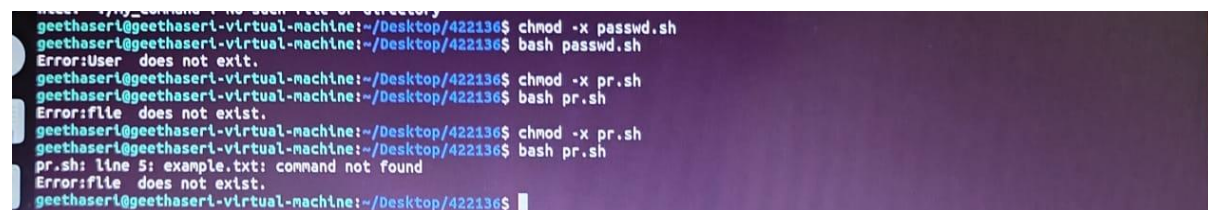
```
#!/bin/bash

# Shell script to initiate a talk session with another user

# Prompt the user to enter the username of the person they want to talk to
read -p "Enter the username of the user you want to talk to: " username

# Start a talk session with the specified user

talk "$username"
```

A terminal window with a dark purple background. The prompt is 'geethaseri@geethaseri-virtual-machine:~/Desktop/422136\$'. The user runs 'chmod -x passwd.sh', then 'bash passwd.sh'. This results in an 'Error:User does not exist.' message. Next, the user runs 'chmod -x pr.sh', then 'bash pr.sh'. This results in an 'Error:file does not exist.' message. Then, the user runs 'chmod -x pr.sh' again, followed by 'bash pr.sh'. This results in a message 'pr.sh: line 5: example.txt: command not found' and another 'Error:file does not exist.' message. The terminal ends with the prompt 'geethaseri@geethaseri-virtual-machine:~/Desktop/422136\$' and a cursor.

```
geethaseri@geethaseri-virtual-machine:~/Desktop/422136$ chmod -x passwd.sh
geethaseri@geethaseri-virtual-machine:~/Desktop/422136$ bash passwd.sh
Error:User does not exist.
geethaseri@geethaseri-virtual-machine:~/Desktop/422136$ chmod -x pr.sh
geethaseri@geethaseri-virtual-machine:~/Desktop/422136$ bash pr.sh
Error:file does not exist.
geethaseri@geethaseri-virtual-machine:~/Desktop/422136$ chmod -x pr.sh
geethaseri@geethaseri-virtual-machine:~/Desktop/422136$ bash pr.sh
pr.sh: line 5: example.txt: command not found
Error:file does not exist.
geethaseri@geethaseri-virtual-machine:~/Desktop/422136$
```

```

student@nit-OptiPlex-7070:~/Desktop/422136$ chmod +x rcp.sh
student@nit-OptiPlex-7070:~/Desktop/422136$ bash rcp.sh
Directory contents:
total 0
-rw-rw-r-- 1 student student 0 Apr 11 18:12 file1.txt
-rw-rw-r-- 1 student student 0 Apr 11 18:12 file2.txt
Updated directory contents:
total 0
-rw-rw-r-- 1 student student 0 Apr 11 18:12 copied_file.txt
-rw-rw-r-- 1 student student 0 Apr 11 18:12 file1.txt
-rw-rw-r-- 1 student student 0 Apr 11 18:12 file2.txt
Updated directory contents after moving file2.txt:
total 0
-rw-rw-r-- 1 student student 0 Apr 11 18:12 copied_file.txt
-rw-rw-r-- 1 student student 0 Apr 11 18:12 file1.txt
-rw-rw-r-- 1 student student 0 Apr 11 18:12 moved_file.txt
Copying file1.txt to a remote host...
ssh: Could not resolve hostname remote.example.com: Name or service not known
lost connection
rmdir: failed to remove 'example_directory': Directory not empty
Files and directory removed.

```

```

student@nit-OptiPlex-7070:~/Desktop/422136$ chmod +x rsh.sh
student@nit-OptiPlex-7070:~/Desktop/422136$ bash rsh.sh
mkdir: cannot create directory 'example_directory': File exists
Directory contents:
total 0
-rw-rw-r-- 1 student student 0 Apr 11 18:12 file1.txt
-rw-rw-r-- 1 student student 0 Apr 11 18:12 file2.txt
Updated directory contents:
total 0
-rw-rw-r-- 1 student student 0 Apr 11 18:12 copied_file.txt
-rw-rw-r-- 1 student student 0 Apr 11 18:12 file1.txt
-rw-rw-r-- 1 student student 0 Apr 11 18:12 file2.txt
Updated directory contents after moving file2.txt:
total 0
-rw-rw-r-- 1 student student 0 Apr 11 18:12 copied_file.txt
-rw-rw-r-- 1 student student 0 Apr 11 18:12 file1.txt
-rw-rw-r-- 1 student student 0 Apr 11 18:12 moved_file.txt
Executing 'ls' command remotely...
student@localhost's password:
Permission denied, please try again.
student@localhost's password:
Connection closed by 127.0.0.1 port 22
rmdir: failed to remove 'example_directory': Directory not empty
Files and directory removed.

```

```

student@nit-OptiPlex-7070:~/Desktop/422136$ chmod +x telnet.sh
student@nit-OptiPlex-7070:~/Desktop/422136$ bash telnet.sh
Trying 192.168.204.129...
Connected to 192.168.204.129.
Escape character is '^]'.
SSH-2.0-OpenSSH_8.9p1 Ubuntu-3ubuntu0.6
student
Invalid SSH identification string.
Connection closed by foreign host.

```

```
Terminal size: 53 rows x 204 columns
This text is in red color
This text is bold
```

```
This text is at row 10, column 20
```

```
student@nit-OptiPlex-7070:~/Desktop/422136$ chmod +x tty.sh
student@nit-OptiPlex-7070:~/Desktop/422136$ bash tty.sh
/dev/pts/0
```

```
student@nit-OptiPlex-7070:~/Desktop/422136$ chmod +x uname.sh
student@nit-OptiPlex-7070:~/Desktop/422136$ bash uname.sh
Operating system name:
Linux
Kernel name:
nit-OptiPlex-7070
Kernel release:
6.5.0-27-generic
Kernel version:
#28~22.04.1-Ubuntu SMP PREEMPT_DYNAMIC Fri Mar 15 10:51:06 UTC 2
Machine hardware name:
x86_64
Processor architecture:
x86_64
Operating system version:
GNU/Linux
```

```
student@nit-OptiPlex-7070:~/Desktop/422136$ chmod +x wc.sh
student@nit-OptiPlex-7070:~/Desktop/422136$ bash wc.sh
Usage: wc.sh <filename>
student@nit-OptiPlex-7070:~/Desktop/422136$ chmod +x who.sh
student@nit-OptiPlex-7070:~/Desktop/422136$ bash who.sh
student  tty2          2024-04-11 18:04 (tty2)
student  pts/3            2024-04-11 18:34
student  pts/4            2024-04-11 19:27 (192.168.204.129)
```

```
student@nit-OptiPlex-7070:~/Desktop/422136$ chmod +x write.sh
student@nit-OptiPlex-7070:~/Desktop/422136$ bash write.sh
example_directory rcp.sh rsh.sh telnet.sh tput.sh tty.sh uname.sh wc.sh who.sh write.sh
/home/student/Desktop/422136
cat: example.txt: No such file or directory
write.sh: line 13: gcc: command not found
write.sh: line 16: ./hello: No such file or directory
```