

## Experiment3:

(A) Write a shell script that takes a command line argument and reports on whether it is a directory or a file.

**Command:** nano

filename.sh echo "enter

filename"

read a

if test -f \$a

then echo "this is a

file" elif test -d \$a

then echo "this is a

directory" else

echo "it does not

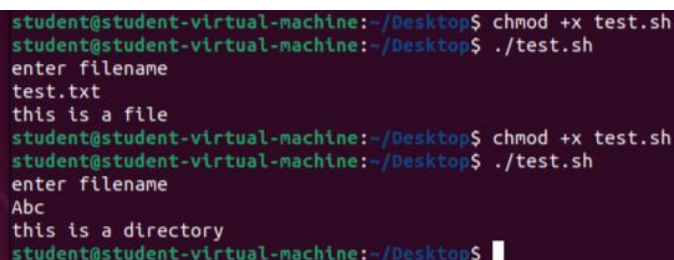
exist" fi

**(ctrl+o:save & ctrl+x:exit)**

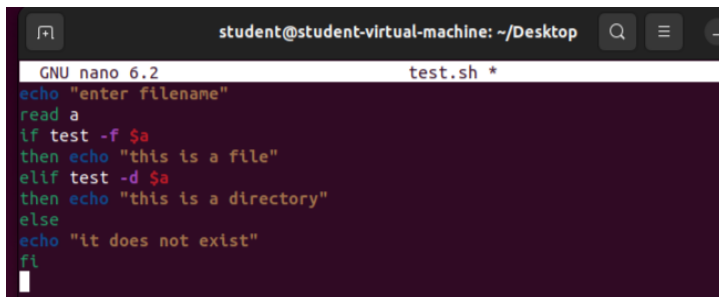
**Terminal:** chmod +x

filename

./nameofthefile.sh

A terminal window screenshot showing the execution of the shell script. The user runs 'chmod +x test.sh' and then './test.sh'. The script prompts for a filename. In the first run, 'test.txt' is entered, and the output is 'this is a file'. In the second run, 'Abc' is entered, and the output is 'this is a directory'.

```
student@student-virtual-machine:~/Desktop$ chmod +x test.sh
student@student-virtual-machine:~/Desktop$ ./test.sh
enter filename
test.txt
this is a file
student@student-virtual-machine:~/Desktop$ chmod +x test.sh
student@student-virtual-machine:~/Desktop$ ./test.sh
enter filename
Abc
this is a directory
student@student-virtual-machine:~/Desktop$
```



```
student@student-virtual-machine: ~/Desktop
GNU nano 6.2 test.sh *
echo "enter filename"
read a
if test -f $a
then echo "this is a file"
elif test -d $a
then echo "this is a directory"
else
echo "it does not exist"
fi
```

**(B) Write a shell script that takes a file names as arguments and convert all of them to uppercase.**

**Command:** nano

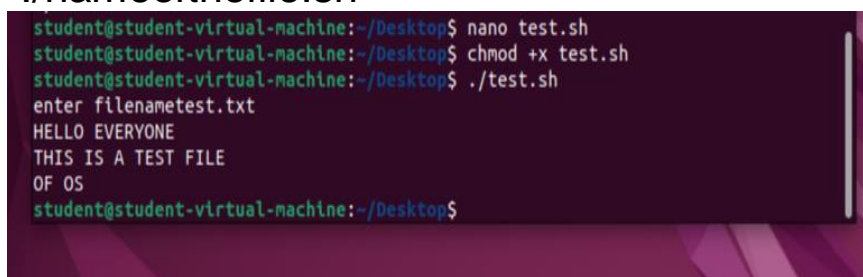
```
filename.sh echo -n "enter
filename" read filename
if [ ! -f $filename ]
then
echo "filename $filename does not
exist" exit 1
fi
tr '[a-z]' '[A-Z]' < $filename
```

**(ctrl+o:save & ctrl+x:exit)**

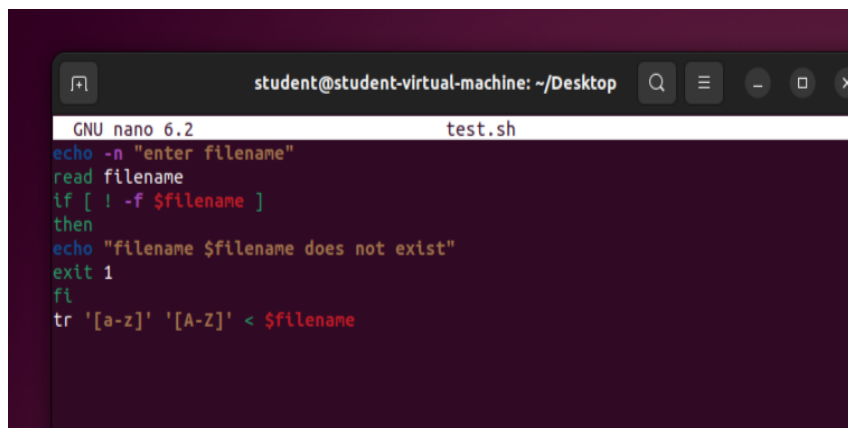
**Terminal:** chmod +x

filename

./nameofthefile.sh



```
student@student-virtual-machine:~/Desktop$ nano test.sh
student@student-virtual-machine:~/Desktop$ chmod +x test.sh
student@student-virtual-machine:~/Desktop$ ./test.sh
enter filename: test.txt
HELLO EVERYONE
THIS IS A TEST FILE
OF OS
student@student-virtual-machine:~/Desktop$
```



A terminal window titled "student@student-virtual-machine: ~/Desktop" is shown. Inside, the GNU nano 6.2 editor is open, editing a file named "test.sh". The script content is as follows:

```
GNU nano 6.2 test.sh
echo -n "enter filename"
read filename
if [ ! -f $filename ]
then
echo "filename $filename does not exist"
exit 1
fi
tr '[a-z]' '[A-Z]' < $filename
```