

Logical Operators

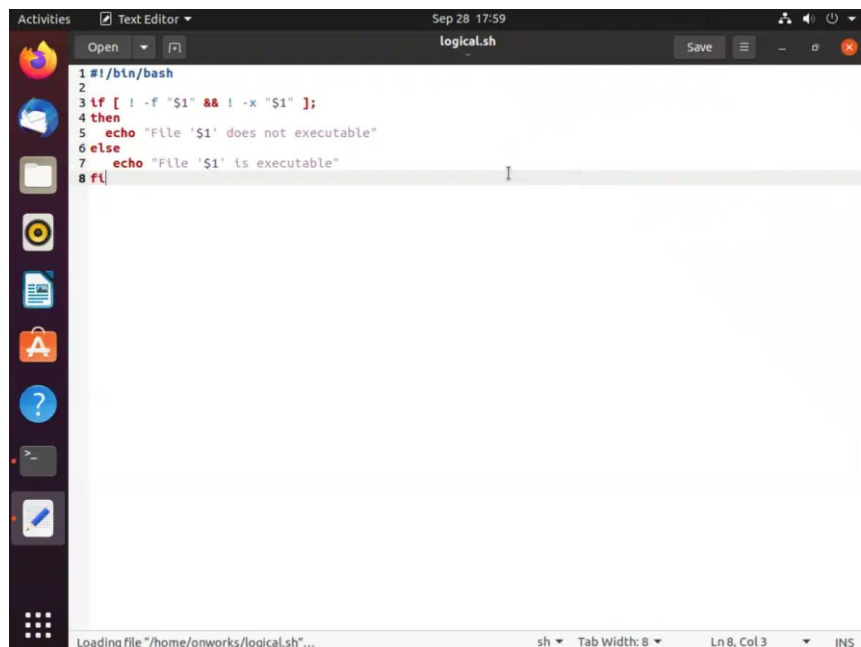
- 1) Check whether the file exists and is executable using logical operators.
Hint: man test

#commands in shell script

```
#!/bin/bash
if [ ! -f "$1" && ! -x "$1" ];
then
    echo "File '$1' does not executable"
else
    echo "File '$1' is executable"
fi
```

#commands in terminal

```
gedit logical.sh
touch test.txt
chmod +x logical.sh
./logical.sh test.txt
```

A screenshot of a Linux desktop environment. The top panel shows the date and time as 'Sep 28 17:59'. Below the panel is a dock with various application icons. The main window is a text editor titled 'logical.sh' with a menu bar containing 'Open', 'Save', and other standard icons. The editor displays a shell script with the following content:

```
1#!/bin/bash
2
3if [ ! -f "$1" && ! -x "$1" ];
4then
5    echo "File '$1' does not executable"
6else
7    echo "File '$1' is executable"
8fi
```

The status bar at the bottom of the window shows 'Loading file "/home/onworks/logical.sh"...', 'sh', 'Tab Width: 8', 'Ln 8, Col 3', and 'INS'.

Machine View

Activities Terminal Sep 28 17:58 onworks@onworks-Standard-PC-i440FX-PIIX-1996: ~

```
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ gedit logical.sh
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ touch test.txt
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ chmod +x logical.sh
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ ./logical.sh test.txt
./logical.sh: line 3: [: missing `]'
File 'test.txt' is executable
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$
```