

Ganpat University
Faculty of Engineering & Technology
Computer Science & Engineering
(2CSE204) Basics of Operating System and Shell Scripting

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Sem - 2

Branch: CS

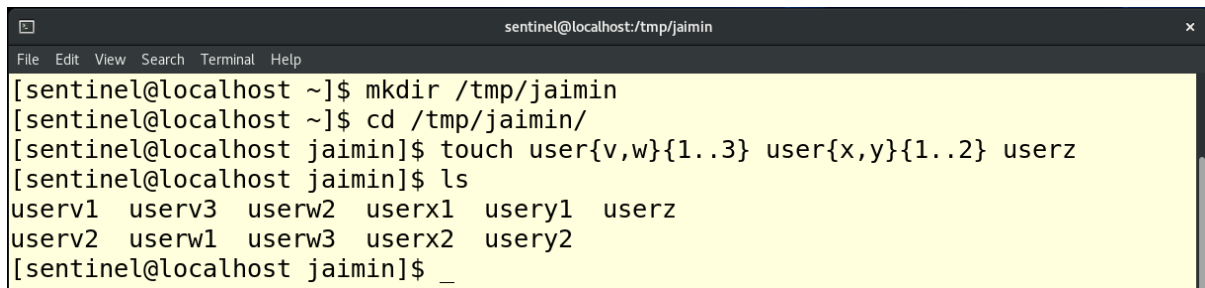
Class: B

Batch: 25

Practical 3

1. Create following files inside /tmp/yourname directory:

Command: touch user{v,w}{1..3} user{x,y}{1..2} userz

A terminal window titled 'sentinel@localhost:/tmp/jaimin' with a menu bar (File, Edit, View, Search, Terminal, Help). The terminal shows the following commands and output:

```
[sentinel@localhost ~]$ mkdir /tmp/jaimin
[sentinel@localhost ~]$ cd /tmp/jaimin/
[sentinel@localhost jaimin]$ touch user{v,w}{1..3} user{x,y}{1..2} userz
[sentinel@localhost jaimin]$ ls
userv1 userv3 userw2 userx1 usery1 userz
userv2 userw1 userw3 userx2 usery2
[sentinel@localhost jaimin]$ _
```

2. Display the following statements on terminal: Currently logged in user is username
Define a variable named mynumber which contains your name and display it as: My
enrolment number is mynumber Today's date is date_in_YYYY_MM_DD_format

Command: user=\$(whoami) , echo "current logged in user is \$user"
num=23162171007 , echo "my enrolment number is \$num"
date=\$(date +%Y-%m-%d) , echo "today's date is \$date"

```
sentinel@localhost:~  
File Edit View Search Terminal Help  
[sentinel@localhost ~]$ user=$(whoami)  
[sentinel@localhost ~]$ echo "current logged in user is $user"  
current logged in user is sentinel  
[sentinel@localhost ~]$ num=23162171007  
[sentinel@localhost ~]$ echo "my enrolment number is $num"  
my enrolment number is 23162171007  
[sentinel@localhost ~]$ date=$(date +%Y-%m-%d)  
[sentinel@localhost ~]$ echo "$date"  
2024-02-25  
[sentinel@localhost ~]$ echo "todays date is $date"  
todays date is 2024-02-25  
[sentinel@localhost ~]$ _
```

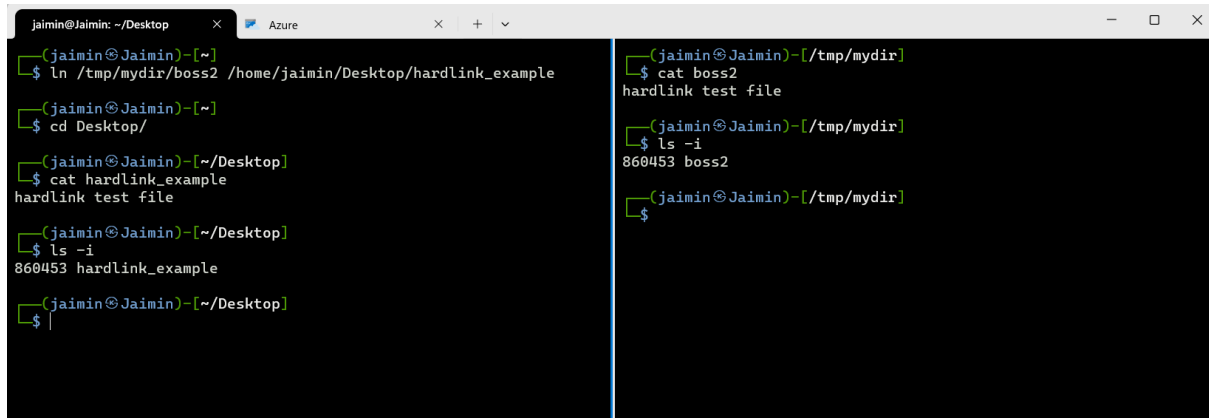
3. Create a soft link of the file /tmp/mydir/boss on student user's desktop which contains the content "Softlink Example" and verify that the behaviour of soft link is same as a shortcut of a file.

Command: `echo "soft link example test test" > /tmp/mydir/boss , ln -s /tmp/mydir/boss /home/sentinel/Desktop/boss_sodtlink , cd Desktop , ls -l boss_softlink,`

```
sentinel@localhost:~/Desktop  
File Edit View Search Terminal Help  
[sentinel@localhost ~]$ echo "softlink example test test" > /tmp/mydir/boss  
[sentinel@localhost ~]$ ln -s /tmp/mydir/boss /home/sentinel/Desktop/boss_softlink  
[sentinel@localhost ~]$ cd Desktop/  
[sentinel@localhost Desktop]$ ls -l boss_softlink  
lrwxrwxrwx. 1 sentinel sentinel 15 Feb 25 00:51 boss_softlink -> /tmp/mydir/boss  
[sentinel@localhost Desktop]$ cat boss_softlink  
softlink example test test  
[sentinel@localhost Desktop]$ _
```

4. Create a hard link to the file /tmp/mydir/boss2 on student user's desktop which contains the content "Hardlink Example" and verify that the behaviour of hard link is same as a copy of a file.

Command: `ln /tmp/mydir/boss2 /home/jaimin/Desktop/hardlink_example`



The image shows a terminal window with two panes. The left pane shows the creation of a hardlink and verification on the Desktop. The right pane shows the verification of the hardlink in the source directory.

```
jaimin@Jaimin: ~/Desktop
(jaimin@Jaimin)-[~]
$ ln /tmp/mydir/boss2 /home/jaimin/Desktop/hardlink_example
(jaimin@Jaimin)-[~]
$ cd Desktop/
(jaimin@Jaimin)-[~/Desktop]
$ cat hardlink_example
hardlink test file
(jaimin@Jaimin)-[~/Desktop]
$ ls -li
860453 hardlink_example
(jaimin@Jaimin)-[~/Desktop]
$ |

(jaimin@Jaimin)-[/tmp/mydir]
$ cat boss2
hardlink test file
(jaimin@Jaimin)-[/tmp/mydir]
$ ls -li
860453 boss2
(jaimin@Jaimin)-[/tmp/mydir]
$
```