

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

Practical 3

Name:- Dwij Vatsal Desai

Sem:- 2

Sub: - BOSS

Enrollment No.:- 23162121027

Prac:- 3

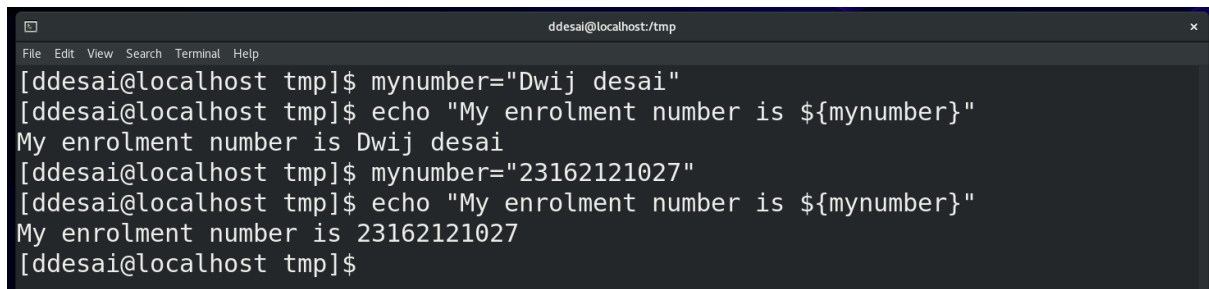
Date:- 27/2/2024

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

userv1
userv2
userv3
userw1
userw2
userw3
userx1
userx2
usery1
usery2
userz

Command:- touch User{v{1,2,3},w{1,2,3},x{1,2},y{1,2},z}

Image:-

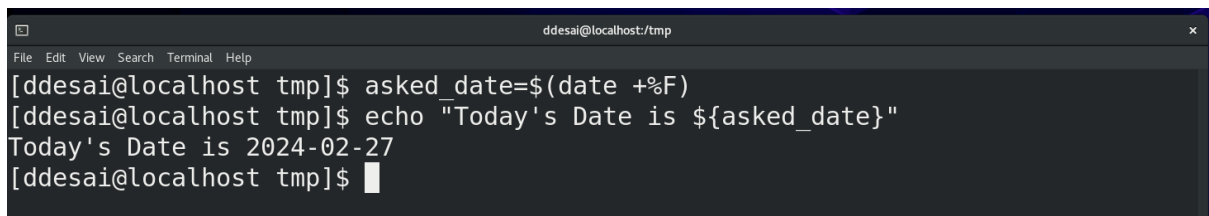
A terminal window titled 'ddesai@localhost:/tmp' with a menu bar (File, Edit, View, Search, Terminal, Help). The terminal shows the following commands and output:

```
[ddesai@localhost tmp]$ mynumber="Dwij desai"
[ddesai@localhost tmp]$ echo "My enrolment number is ${mynumber}"
My enrolment number is Dwij desai
[ddesai@localhost tmp]$ mynumber="23162121027"
[ddesai@localhost tmp]$ echo "My enrolment number is ${mynumber}"
My enrolment number is 23162121027
[ddesai@localhost tmp]$
```

c. Today's date is *date_in_yyyy_mm_dd_format*

Command:- asked_date=\$(date +%F)
echo "Today's Date is \${asked_date}"

Image:-

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

```
[ddesai@localhost tmp]$ asked_date=$(date +%F)
[ddesai@localhost tmp]$ echo "Today's Date is ${asked_date}"
Today's Date is 2024-02-27
[ddesai@localhost tmp]$
```

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:- touch original
ln -s /tmp/orignal /tmp/softlink
ls -l /tmp

Image:-

```
ddesai@localhost:tmp
File Edit View Search Terminal Help
[ddesai@localhost tmp]$ touch orignal
[ddesai@localhost tmp]$ ls -s /tmp/orignal /tmp/softlink
ls: cannot access '/tmp/softlink': No such file or directory
0 /tmp/orignal
[ddesai@localhost tmp]$ cd ..
[ddesai@localhost /]$ ls
bin  dev  home  lib64  mnt  proc  run  srv  tmp  var
boot  etc  lib  media  opt  root  sbin  sys  usr
[ddesai@localhost /]$ cd tmp
[ddesai@localhost tmp]$ ln -s /tmp/orignal /tmp/softlink
[ddesai@localhost tmp]$ ls -l /tmp
total 0
-rw-rw-r--. 1 ddesai ddesai 0 Feb 14 07:23 b242.txt
-rw-rw-r--. 1 ddesai ddesai 0 Feb 14 07:20 bat24.txt
-rw-rw-r--. 1 ddesai ddesai 0 Feb 27 03:53 orignal
drwxrwxr-x. 2 ddesai ddesai 60 Feb 20 12:31 Rajasthan
drwxrwxr-x. 3 ddesai ddesai 20 Feb 14 07:53 sem2
lrwxrwxrwx. 1 ddesai ddesai 12 Feb 27 03:56 softlink -> /tmp/orignal
```

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:- touch orignal
ln /tmp/orignal /tmp/hardlink
ls -l

Image:-

```
[ddesai@localhost tmp]$ touch orignal
[ddesai@localhost tmp]$ ln /tmp/orignal /tmp/hardlink
[ddesai@localhost tmp]$ ls -l
total 0
-rw-rw-r--. 1 ddesai ddesai 0 Feb 14 07:23 b242.txt
-rw-rw-r--. 1 ddesai ddesai 0 Feb 14 07:20 bat24.txt
-rw-rw-r--. 2 ddesai ddesai 0 Feb 27 03:58 hardlink
```