OS LAB 1

BASIC SHELL COMMANDS

1) 2) 3)

```
/root% whoami
root
/root% cd /
/% cd tmp
/tmp% touch testingfile
/tmp% ls
ldconfig        testingfile  utmp
/tmp% file testingfile
-/bin/sh: file: not found
/tmp% _
```

4) "rmdir is used to remove the empty directory. "rm" is used to remove a directory."rm –r" is used to remove both file and directory.

```
/% mkdir temp
/% ls
bin          home          linuxrc      root          sys          usr
dev          lib           lost+found   run           temp         var
etc          lib32         proc         sbin          tmp
/% rmdir temp
/% ls
bin          home          linuxrc      root          sys          var
dev          lib           lost+found   run           tmp
etc          lib32         proc         sbin          usr
/% mkdir temp
/% ls
bin          home          linuxrc      root          sys          usr
dev          lib           lost+found   run           temp         var
etc          lib32         proc         sbin          tmp
/% rm temp
rm: 'temp' is a directory
/% _
```

5)

```
/% cd home
/home% _
```

6)

```
/% touch "tryit&"
/% ls
bin          home          linuxrc      root          sys          tryit&
dev          lib           lost+found   run           temp         usr
etc          lib32         proc         sbin          tmp          var
/% mv "tryit&" tryit_now
/% ls
bin          home          linuxrc      root          sys          tryit_now
dev          lib           lost+found   run           temp         usr
etc          lib32         proc         sbin          tmp          var
/% _
```

7)

```
/% alias myclear='clear'
/% myclear_
```

8)

a)

```
/% alias cls=clear
/% cls_
```

```
/% alias cls=ls
/% cls
bin         home         linuxrc      root       sys         tryit_now
dev         lib          lost+found   run        temp        usr
etc         lib32        proc         sbin       tmp         var
/% _
```

b)

```
/root% mkdir d1
/root% cd d1
d1% touch f1 f2
d1% ls
f1   f2
d1% touch f1
d1% ls
f1   f2
d1% cd
/root% ls
d1          test.lua   tests                    .
/root% mkdir d1
mkdir: can't create directory 'd1': File exists
/root% _
```

QUESTIONS

1)

```
/% mkdir -p /tmp/BSEF17A529/ALI/OS
/% cd /tmp
/tmp% ls
BSEF17A529    ldconfig        testingfile   utmp
/tmp% cd BSEF17A529
BSEF17A529% ls
ALI
BSEF17A529% cd ALI
ALI% ls
OS
ALI% cd OS
OS% ls
OS% _
```

2)

```
/% ls -al
total 35
drwxr-xr-x    17 root     root           1024 Mar   5 17:22 .
drwxr-xr-x    17 root     root           1024 Mar   5 17:22 ..
-rw-------     1 root     root            706 Mar   5 17:31 .ash_history
drwxr-xr-x     2 root     root           2048 Jul 14  2014 bin
drwxr-xr-x     2 root     root           1024 Mar   5 17:23 d1
drwxr-xr-x     5 root     root           3072 Feb 13  2014 dev
drwxr-xr-x     5 root     root           1024 Jul 14  2014 etc
drwxr-xr-x     3 root     root           1024 Feb 13  2014 home
drwxr-xr-x     2 root     root           1024 Jul 14  2014 lib
lrwxrwxrwx     1 root     root              3 Feb 13  2014 lib32 -> lib
lrwxrwxrwx     1 root     root             11 Feb 13  2014 linuxrc -> bin/busybox
drwx------     2 root     root          16384 Jul 14  2014 lost+found
dr-xr-xr-x    32 root     root              0 Mar   5 17:10 proc
drwx------     4 root     root           1024 Mar   5 17:24 root
lrwxrwxrwx     1 root     root              3 Sep 17  2013 run -> tmp
drwxr-xr-x     2 root     root           1024 Feb 13  2014 sbin
drwxr-xr-x    11 root     root              0 Mar   5 17:10 sys
drwxr-xr-x     2 root     root           1024 Mar   5 17:16 temp
drwxrwxrwt     4 root     root           1024 Mar   5 17:29 tmp
-rw-r--r--     1 root     root              0 Mar   5 17:19 tryit_now
drwxr-xr-x     6 root     root           1024 Feb 13  2014 usr
drwxr-xr-x     4 root     root           1024 Feb 13  2014 var
/% _
```

3)

```
/% rm -r /tmp/BSEF17A529
/% cd /tmp
/tmp% ls
ldconfig        testingfile  utmp
/tmp% rmdir /tmp/BSEF17A529/ALI/OS
rmdir: '/tmp/BSEF17A529/ALI/OS': No such file or directory
/tmp% _
```

```
/% mkdir -p /tmp/BSEF17A529/ALI/OS
/% cd /tmp
/tmp% ls
BSEF17A529   ldconfig        testingfile  utmp
/tmp% cd ../
/% rmdir /tmp/BSEF17A529/ALI/OS /tmp/BSEF17A529/ALI /tmp/BSEF17A529
/% cd /tmp
/tmp% ls
ldconfig        testingfile  utmp
/tmp% _
```

5)

```
/tmp% mv testFile test@file!
/tmp% cat testFile
cat: can't open 'testFile': No such file or directory
/tmp% _
```

6)

```
/tmp% tail -2 test@file!
/tmp% yes i can do_
```

7)

```
/% unleash
total 36
drwxr-xr-x    17 root      root          1024 Mar  5 17:22 .
drwxr-xr-x    17 root      root          1024 Mar  5 17:22 ..
-rw-------     1 root      root          1153 Mar  5 17:44 .ash_history
drwxr-xr-x     2 root      root          2048 Jul 14  2014 bin
drwxr-xr-x     2 root      root          1024 Mar  5 17:23 d1
drwxr-xr-x     5 root      root          3072 Feb 13  2014 dev
drwxr-xr-x     5 root      root          1024 Jul 14  2014 etc
drwxr-xr-x     3 root      root          1024 Feb 13  2014 home
drwxr-xr-x     2 root      root          1024 Jul 14  2014 lib
lrwxrwxrwx     1 root      root             3 Feb 13  2014 lib32 -> lib
lrwxrwxrwx     1 root      root            11 Feb 13  2014 linuxrc -> bin/busybox
drwx------     2 root      root         16384 Jul 14  2014 lost+found
dr-xr-xr-x    32 root      root             0 Mar  5 17:10 proc
drwx------     4 root      root          1024 Mar  5 17:24 root
lrwxrwxrwx     1 root      root             3 Sep 17  2013 run -> tmp
drwxr-xr-x     2 root      root          1024 Feb 13  2014 sbin
drwxr-xr-x    11 root      root             0 Mar  5 17:10 sys
drwxr-xr-x     2 root      root          1024 Mar  5 17:16 temp
drwxrwxrwt     3 root      root          1024 Mar  5 17:41 tmp
-rw-r--r--     1 root      root             0 Mar  5 17:19 tryit_now
drwxr-xr-x     6 root      root          1024 Feb 13  2014 usr
drwxr-xr-x     4 root      root          1024 Feb 13  2014 var
/% _
```

8)

Man command to see shell commands.

9)

```
/% type type
type is a shell builtin
/% _
```

10)

We can remove directory by using "rm –r".

ABSOLUTE/RELATIVE PATH

1)

```
[root@localhost /]# cd home
[root@localhost home]# sudo mkdir -p dilawer/reports
c[root@localhost home]# cd dilawer
[root@localhost dilawer]# ls
reports
[root@localhost dilawer]#
```

2)

```
[root@localhost dilawer]# cd reports
[root@localhost reports]# sudo mkdir /home/abdul
[root@localhost reports]# cd /home
[root@localhost home]# ls
abdul   dilawer
[root@localhost home]#
```

3)

```
[root@localhost reports]# touch ../../abdul/file1
[root@localhost reports]# cd ../../abdul
[root@localhost abdul]# ls
file1
[root@localhost abdul]#
```

4)

```
[root@localhost abdul]# mkdir ../staff
[root@localhost abdul]# cd ../
[root@localhost home]# cd staff
[root@localhost staff]# mkdir arif rauf
[root@localhost staff]# tree
sh: tree: command not found
[root@localhost staff]# ls
arif  rauf
[root@localhost staff]#
```