

NATIONAL UNIVERSITY OF MODERN LANGUAGES

ISLAMABAD



OPERATING SYSTEM (LAB)

Lab Report: 11

Submitted to
Mr.Meesum Raza

Submitted By

Adeel Naeem

(BSAI-146)

Junaid Asif

(BSAI-144)

Syed Qasim Ali

(BSAI-161)

Question # 01

- Create the following shell script, called forever, in your home directory:

```
#!/bin/sh
while [ 1 ]; do
echo hello... >/dev/null;
done
```

Make it executable and run it in the background as follows:

```
$ chmod a+rx forever
```

```
$ ./forever &
```

```
junaidasifdev@Joni:~$ nano ~/forever
junaidasifdev@Joni:~$ chmod a+rx ~/forever
chmod: cannot access '/home/junaidasifdev/forever': No such file or directory
junaidasifdev@Joni:~$ ./forever &
[1] 1090
```

- Use ps -l to check the script's nice level

```
junaidasifdev@Joni:~$ ps -l
F S  UID      PID      PPID  C  PRI   NI     ADDR  SZ  WCHAN  TTY          TIME CMD
4 S  1000      1059      1056  0   80    0  -   2641 do_wai pts/0        00:00:00 bash
0 R  1000      1094      1059  0   80    0  -   2635 -      pts/0        00:00:00 ps
junaidasifdev@Joni:~$
```

- Run the script with nice and give it a niceness of 15. Try running it alongside a less nice version, and see what the difference is in top

```
junaidasifdev@Joni:~$ nice -n 15 ./forever &
[1] 1095
```

- Try using nice or renice to make a process' niceness less than 0

```
junaidasifdev@Joni:~$ ps -l
F S  UID      PID      PPID  C  PRI   NI     ADDR  SZ  WCHAN  TTY          TIME CMD
4 S  1000      1059      1056  0   80    0  -   2641 do_wai pts/0        00:00:00 bash
0 R  1000      1099      1059  0   80    0  -   2635 -      pts/0        00:00:00 ps
junaidasifdev@Joni:~$ renice -n 10 -p 1059
1059 (process ID) old priority 0, new priority 10
```

