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EE463\_Lab1

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## Testing the Installed Environment:

```
root@lamp: /root
Using username "root".
Pre-authentication banner message from server:
|
End of banner message from server
root@192.168.56.101's password:
Welcome to Lamp, TurnKey GNU/Linux 16.0 (Debian 10/Buster)

System information for Sat Mar 25 20:49:39 2023 - +03 (UTC+0300)

System load:  0.07           Memory usage:  54.7%
Processes:   101           Swap usage:    0.0%
Usage of /:   13.9% of 16.61GB  IP address for eth0: 192.168.56.101

For Advanced commandline config run:    confconsole

For more info see: https://www.turnkeylinux.org/docs/confconsole

Linux lamp 4.19.0-8-amd64 #1 SMP Debian 4.19.98-1+deb10u1 (2020-04-27) x86_64
Last login: Sat Mar 25 20:45:46 2023 from 192.168.56.1
root@lamp ~#
```

```
root@lamp ~# g++ add.c -o add
add.c:2:10: fatal error: studio.h: No such file or directory
#include <studio.h>
         ^~~~~~
compilation terminated.
root@lamp ~#
```



## Linux Command Tutorial

```
root@lamp ~# adduser mohab
Adding user `mohab' ...
Adding new group `mohab' (1000) ...
Adding new user `mohab' (1000) with group `mohab' ...
Creating home directory `/home/mohab' ...
Copying files from `/etc/skel' ...
New password:
Retype new password:
passwd: password updated successfully
Changing the user information for mohab
Enter the new value, or press ENTER for the default
    Full Name []:
    Room Number []:
    Work Phone []:
    Home Phone []:
    Other []:
Is the information correct? [Y/n] Y
root@lamp ~#
```

## Tutorial 1:

```
mohab@lamp: /home/mohab
Using username "mohab".
mohab@192.168.56.101's password:
Welcome to Lamp, TurnKey GNU/Linux 16.0 (Debian 10/Buster)

System information for Sat Mar 25 23:07:35 2023 - +03 (UTC+0300)

System load:  0.04          Memory usage:  56.1%
Processes:    103          Swap usage:    0.0%
Usage of /:   13.9% of 16.61GB  IP address for eth0: 192.168.56.101

For Advanced commandline config run:  confconsole

For more info see: https://www.turnkeylinux.org/docs/confconsole

Linux lamp 4.19.0-8-amd64 #1 SMP Debian 4.19.98-1+deb10u1 (2020-04-27) x86_64
Last login: Sat Mar 25 23:05:22 2023 from 192.168.56.1
mohab@lamp ~$ ls
add.c
mohab@lamp ~$ ls -a
.  .bash_history  .bashrc  .penv  .profile.d  .ssh
.. .bash_logout  .bashrc.d  .profile  .sdirs  add.c
mohab@lamp ~$ mkdir unixstuff
mohab@lamp ~$ ls
add.c  unixstuff
mohab@lamp ~$ cd unixstuff
mohab@lamp ~/unixstuff$ ls
mohab@lamp ~/unixstuff$ mkdir backups
mohab@lamp ~/unixstuff$ ls
backups
mohab@lamp ~/unixstuff$ ls -a
.  ..  backups
mohab@lamp ~/unixstuff$ cd .
mohab@lamp ~/unixstuff$ cd ..
mohab@lamp ~$ pwd
/home/mohab
mohab@lamp ~$ ls unixstuff
backups
mohab@lamp ~$ ls backups
ls: cannot access 'backups': No such file or directory
mohab@lamp ~$ ls unixstuff/backups
mohab@lamp ~$ ls ~/unixstuff
backups
mohab@lamp ~$ ls ~
add.c  unixstuff
mohab@lamp ~$ ls ../
mohab
mohab@lamp ~$
```

## Tutorial 2:

### Example 2.1 (Copying Files)

```
mohab@lamp: /home/mohab/unixstuff
mohab@lamp ~$ cd ~/unixstuff
mohab@lamp ~/unixstuff$ cp /home/mohab/unixstuff/vol/examples/tutorial/science.txt .
mohab@lamp ~/unixstuff$ ls
backups  science.txt  vol
mohab@lamp ~/unixstuff$
```

### Exercise 2a

```
mohab@lamp: /home/mohab/unixstuff
mohab@lamp ~/unixstuff$ touch science.bak
mohab@lamp ~/unixstuff$ ls
backups  science.bak  science.txt  vol
mohab@lamp ~/unixstuff$ cp /home/mohab/unixstuff/science.txt science.bak
mohab@lamp ~/unixstuff$
```

### Example 2.2 (Moving files)

```
mohab@lamp: /home/mohab/unixstuff
mohab@lamp ~/unixstuff$ mv science.bak backups/.
mohab@lamp ~/unixstuff$ ls
backups  science.txt  vol
mohab@lamp ~/unixstuff$ ls backups
science.bak
mohab@lamp ~/unixstuff$
```

### Example 2.3 (Removing files and directories)

```
mohab@lamp: /home/mohab/unixstuff
mohab@lamp ~/unixstuff$ cp science.txt tempfile.txt
mohab@lamp ~/unixstuff$ ls
backups  science.txt  tempfile.txt  vol
mohab@lamp ~/unixstuff$ rm tempfile.txt
mohab@lamp ~/unixstuff$ ls
backups  science.txt  vol
mohab@lamp ~/unixstuff$
```

## Exercise 2b

```
mohab@lamp: /home/mohab/unixstuff
mohab@lamp ~/unixstuff$ mkdir tempstuff
mohab@lamp ~/unixstuff$ ls
backups  science.txt  tempstuff  vol
mohab@lamp ~/unixstuff$ rmdir tempstuff
mohab@lamp ~/unixstuff$ ls
backups  science.txt  vol
mohab@lamp ~/unixstuff$
```