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LAB: 1

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Part 1:

```
Microsoft Windows [Version 10.0.19045.2728]
(c) Microsoft Corporation. All rights reserved.

C:\Users\PC>ping 192.168.56.101

Pinging 192.168.56.101 with 32 bytes of data:
Reply from 192.168.56.101: bytes=32 time<1ms TTL=64
Reply from 192.168.56.101: bytes=32 time<1ms TTL=64
Reply from 192.168.56.101: bytes=32 time<1ms TTL=64
Reply from 192.168.56.101: bytes=32 time<1ms TTL=64

Ping statistics for 192.168.56.101:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\Users\PC>
```

Figure 1: Test network connectivity

a. trying add.c file

```
anwar@lamp: /home/anwar
System load: 0.04      Memory usage: 50.9%
Processes: 96         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
anwar@lamp ~$ vim add.c

[1]+  Stopped                  vim add.c
anwar@lamp ~$ vim add.c
anwar@lamp ~$ vim add.c
anwar@lamp ~$ g++ add.c -o add
add.c:2:10: fatal error: studio.h: No such file or directory
#include <studio.h>
        ^~~~~~
compilation terminated.
anwar@lamp ~$ vim add.c
anwar@lamp ~$ g++ add.c -o add
add.c:3:33: error: '::main' must return 'int'
void main(int argc, char *argv[]) {
        ^
anwar@lamp ~$ vim add.c
anwar@lamp ~$ vim add.c
anwar@lamp ~$ g++ add.c -o add
anwar@lamp ~$ ./add 1076 764
a,b = 107235354 107235359
c = 1840
anwar@lamp ~$
```

→ result

```
#include <stdlib.h>
#include <stdio.h>
int main(int argc, char *argv[]) {
    int a,b,c;
    a=atoi(argv[1]);
    b=atoi(argv[2]);
    printf("a,b = %d %d \n", argv[1], argv[2]);
    c=a+b;
    printf(" c = %d \n",c);
}
```

Figure: The changes I have made.

b. adding new username

```
root@lamp ~# adduser anwar
Adding user `anwar' ...
Adding new group `anwar' (1000) ...
Adding new user `anwar' (1000) with group `anwar' ...
Creating home directory `/home/anwar' ...
Copying files from `/etc/skel' ...
New password:
Retype new password:
passwd: password updated successfully
Changing the user information for anwar
Enter the new value, or press ENTER for the default
    Full Name []: anwar shawli
    Room Number []: 305
    Work Phone []: 0544128027
    Home Phone []: 0126783365
    Other []: al-safa
Is the information correct? [Y/n] Y
```

c. trying to login with the new username

```
anwar@lamp: /home/anwar
login as: anwar
anwar@192.168.56.101's password:
Welcome to Lamp, TurnKey GNU/Linux 16.0 (Debian 10/Buster)

System information for Thu Dec 22 07:18:47 2022 - +03 (UTC+0300)

System load: 0.00      Memory usage: 53.6%
Processes: 95         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

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Linux lamp 4.19.0-8-amd64 #1 SMP Debian 4.19.98-1+deb10u1 (2020-04-27) x86_64
anwar@lamp ~$
```

part 2:

Tutorial One

Exercise 1a , 1b

I made a directory called **backups** inside **unixstuff** directory and I explored the path using **pwd** also I used **ls** command to see what is inside the directory.

```
anwar@lamp ~$ mkdir unixstuff
anwar@lamp ~$ ls
add  add.c  unixstuff
anwar@lamp ~$ cd unixstuff
anwar@lamp ~/unixstuff$ mkdir backups
anwar@lamp ~/unixstuff$ cd backups
anwar@lamp ~/unixstuff/backups$ pwd
/home/anwar/unixstuff/backups
anwar@lamp ~/unixstuff/backups$
```



Tutorial Two

Exercise 2a

Copying a file from tutorial directory to science directory

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

We can sure that the copying has done from WinSCP

/home/anwar/unixstuff/*.*					
Name	Size	Changed	Rights	Owner	
 backups		3/25/2023 10:51:19 PM	rw-r--r--	anwar	
 science.txt	0 KB	3/25/2023 10:57:56 PM	rw-r--r--	anwar	

Now we will create a backup of science.txt file by copying it to a file called science.bak

```
anwar@lamp ~$ ls
add add.c  unixstuff vol
anwar@lamp ~$ cd unixstuff
anwar@lamp ~/unixstuff$ cp science.txt science.bak
anwar@lamp ~/unixstuff$ ls
backups  science.bak  science.txt
anwar@lamp ~/unixstuff$ mv science.bak backups/.
anwar@lamp ~/unixstuff$ cd backups
anwar@lamp ~/unixstuff/backups$ ls
science.bak
anwar@lamp ~/unixstuff/backups$
```

Exercise 2b

Creating a directory called **tempstuff** then we are going to remove it.

```
anwar@lamp ~/unixstuff$ cd
anwar@lamp ~$ mkdir tempstuff
anwar@lamp ~$ ls
add  add.c  tempstuff  unixstuff  vol
anwar@lamp ~$ rmdir tempstuff
anwar@lamp ~$ ls
add  add.c  unixstuff  vol
anwar@lamp ~$
```