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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

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

Figure 1: Test network connectivity

a. trying add.c file

```
System load:
                               0.04
                                                                Memory usage: 50.9%
       Processes:
Usage of /:
                                                                Swap usage: 0.0% IP address for eth0: 192.168.56.101
                               96
                               13.9% of 16.61GB
       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 ~$ 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 7647

a,b = 107235354 107235359

c = 1840
                                                             result
anwar@lamp ~$
```

```
#include <stdlib.h>
#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

```
oot@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
 For more info see: https://www.turnkeylinux.org/docs/confconsole
Linux lamp 4.19.0-8-amd64 #1 SMP Debian 4.19.98-1+deb10ul (2020-04-27) x86 64
anwar@lamp ~$
```

Tutorial One

Exercise 1a, 1b

I made a directory called **backups** inside **unixstuff** directory and I explored the path using **pwd** also I used **Is** 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$
```

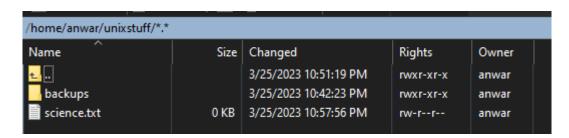
Tutorial Two

Exercise 2a

Copying a file from tutorial directory to science directory

```
anwar@lamp ~\science.txt .
anwar@lamp ~/unixstuff\science.txt .
anwar@lamp ~/unixstuff\sls
backups science.txt
anwar@lamp ~/unixstuff\sls
backups science.txt
anwar@lamp ~/unixstuff\sls
```

We can sure that the copying has done from WinSCP



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\ ls

science.bak

anwar@lamp ~\unixstuff\ backups\ ls
```

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 ~$ ls
add add.c unixstuff vol
anwar@lamp ~$
```