Name: Fatima Zahra

Sap Id: 55551

Subject: Operating System

Lab: 03

Submitted to: Ma'am Ayesha Akram

Riphah International University of Islamabad

Task 1:

```
See "man sudo_root" for details.

fata@fata-virtual-machine:~$ mkdir book
fata@fata-virtual-machine:~$ mkdir book/chemistry
fata@fata-virtual-machine:~$ cd ~/book/chemistry
fata@fata-virtual-machine:~/book/chemistry$ cd
fata@fata-virtual-machine:~$ cd ~/book/chemistry
fata@fata-virtual-machine:~/book/chemistry$ pwd
/home/fata/book/chemistry
fata@fata-virtual-machine:~/book/chemistry$
```

Task 2:

```
fata@fata-virtual-machine:~/book/chemistry$ cd
fata@fata-virtual-machine:~$ cd ~/book/chemistry
fata@fata-virtual-machine:~/book/chemistry$ pwd
/home/fata/book/chemistry
fata@fata-virtual-machine:~/book/chemistry$ mkdir book/physics
mkdir: cannot cr
```

Here ~/books/chemistry is a **relative path.**

Task 3:

```
fata@fata-virtual-machine:~/book/chemistry$ cd
fata@fata-virtual-machine:~$ mkdir book/physics
fata@fata-virtual-machine:~$ mkdir book/computer
fata@fata-virtual-machine:~$ mkdir book/physics/classical
fata@fata-virtual-machine:~$ mkdir ../../computer/graphics
mkdir: cannot create directory '../../computer/graphics': No such file or directory
fata@fata-virtual-machine:~$ cd ~/book/physics/classical
fata@fata-virtual-machine:~/book/physics/classical$ ^C
fata@fata-virtual-machine:~/book/physics/classical$ mkdir ../../computer/graphics
fata@fata-virtual-machine:~/book/physics/classical$ cd
fata@fata-virtual-machine:~$ mkdir book/physics
mkdir: cannot create directory 'book/physics': File exists
fata@fata-virtual-machine:~$ mkdir book/physics/quantum
fata@fata-virtual-machine:~$ mkdir book/math
fata@fata-virtual-machine:~$ mkdir book/math/classical
fata@fata-virtual-machine:~$ cd ~/book
fata@fata-virtual-machine:~/book$ rmdir physics/quantum
```

Task 4:

```
ta@fata-virtual-machine:~$ mkdir book/physics/quantum
ta@fata-virtual-machine:~$ mkdir book/math
ta@fata-virtual-machine:~$ mkdir book/math/classical
ta@fata-virtual-machine:~$ cd ~/book
ta@fata-virtual-machine:~/book$ rmdir physics/quantum
ta@fata-virtual-machine:~/book$ ls
emistry   computer   math   physics
ata@fata-virtual-machine:~/book$ cd ~/book/physics
ata@fata-virtual-machine:~/book/physics$ ls
lassical
ata@fata-virtual-machine:~/book/physics$ cd
ata@fata-virtual-machine:~/book/physics$ cd
```

```
fata@fata-virtual-machine:~/book$ cd
fata@fata-virtual-machine:~$ mkdir book/math/calculus
fata@fata-virtual-machine:~$ cd ~/book
fata@fata-virtual-machine:~/book$ rmdir /math/calculus
rmdir: failed to remove '/math/calculus': No such file or directory
fata@fata-virtual-machine:~/book$ cd computer
fata@fata-virtual-machine:~/book/computer$ rmdir ../math/calculus
fata@fata-virtual-machine:~/book/computer$ ls
graphics
fata@fata-virtual-machine:~/book/computer$ cd
fata@fata-virtual-machine:~$
```

Task 5:

pwd Shows your **current location** in the file system.

ls Lists files and directories in the current folder.

cd Lets you **move** to another directory.

mkdir Creates a new directory.

rmdir Deletes an empty directory.

rm -r Deletes a directory and all its contents.