

# Assignment 2 (13 Dec 2025)

## Q1: Directory Setup

```
kaushal@kaushal-VirtualBox: ~$ mkdir path_lab
kaushal@kaushal-VirtualBox:~$ mkdir path_lab/absolute path_lab/relative
kaushal@kaushal-VirtualBox:~$ touch path_lab/relative/test.txt
kaushal@kaushal-VirtualBox:~$ ls path_lab
absolute  relative
kaushal@kaushal-VirtualBox:~$ ls path_lab/relative
test.txt
kaushal@kaushal-VirtualBox:~$
```

## Q2: Absolute Path Practice

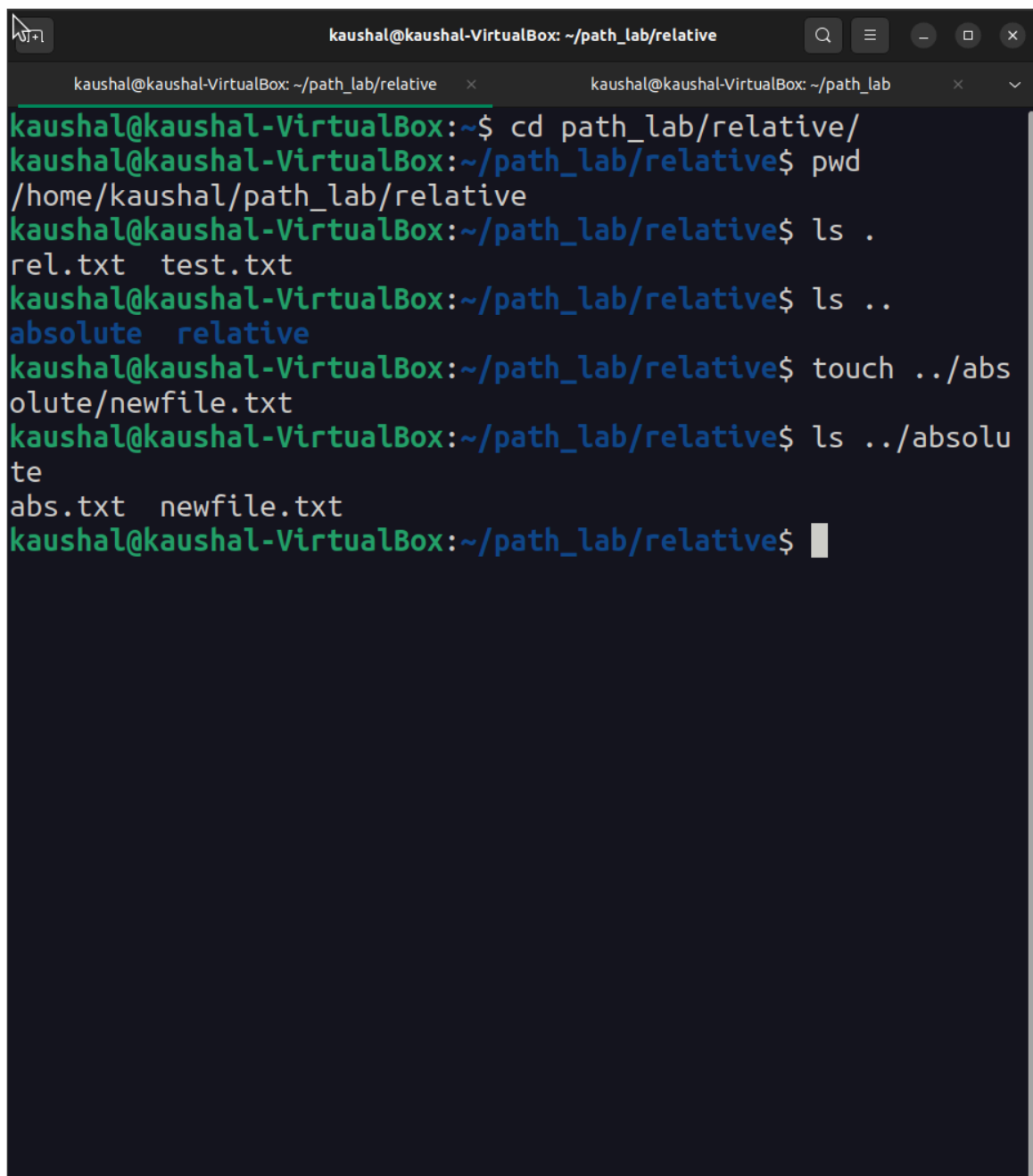
```
kaushal@kaushal-VirtualBox: ~/path_lab/relative
kaushal@kaushal-VirtualBox: ~/Downloads$ cd /home/kaushal/path_lab/
kaushal@kaushal-VirtualBox: ~/path_lab$ cd /home/kaushal/path_lab/relative/
kaushal@kaushal-VirtualBox: ~/path_lab/relative$ nano test.txt
kaushal@kaushal-VirtualBox: ~/path_lab/relative$ cat /home/kaushal/path_lab/relative/test.txt
Test
kaushal@kaushal-VirtualBox: ~/path_lab/relative$ touch /home/kaushal/path_lab/absolute/abs.txt
kaushal@kaushal-VirtualBox: ~/path_lab/relative$
```

### Q3: Relative Path Practice

```
kaushal@kaushal-VirtualBox: ~/path_lab
kaushal@kaushal-VirtualBox: ~/path_lab$ cd path_lab/
kaushal@kaushal-VirtualBox: ~/path_lab$ cd relative/
kaushal@kaushal-VirtualBox: ~/path_lab/relative$ cd ..
kaushal@kaushal-VirtualBox: ~/path_lab$ touch relative/rel.tx
t
kaushal@kaushal-VirtualBox: ~/path_lab$ ls
absolute  relative
kaushal@kaushal-VirtualBox: ~/path_lab$ ls absolute/
abs.txt
kaushal@kaushal-VirtualBox: ~/path_lab$ ls relative/
rel.txt  test.txt
kaushal@kaushal-VirtualBox: ~/path_lab$ cat relative/test.txt

Test
kaushal@kaushal-VirtualBox: ~/path_lab$
```

#### Q4: Navigation Using . and ..



```
kaushal@kaushal-VirtualBox: ~/path_lab/relative
kaushal@kaushal-VirtualBox: ~/path_lab/relative$ pwd
/home/kaushal/path_lab/relative
kaushal@kaushal-VirtualBox: ~/path_lab/relative$ ls .
rel.txt  test.txt
kaushal@kaushal-VirtualBox: ~/path_lab/relative$ ls ..
absolute  relative
kaushal@kaushal-VirtualBox: ~/path_lab/relative$ touch ../absolute/newfile.txt
kaushal@kaushal-VirtualBox: ~/path_lab/relative$ ls ../absolute
abs.txt  newfile.txt
kaushal@kaushal-VirtualBox: ~/path_lab/relative$
```