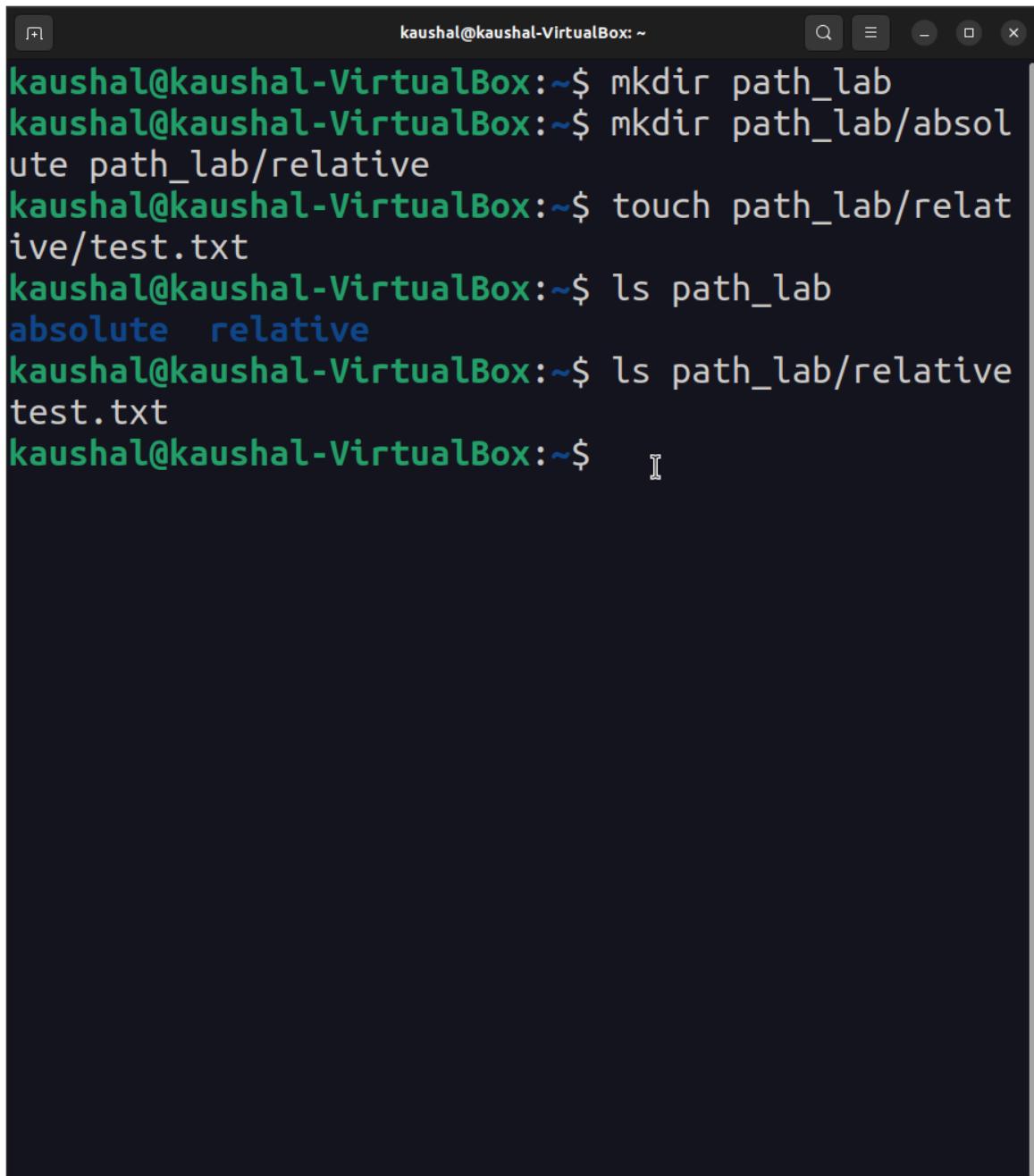


Assignment 2

(13 Dec 2025)

Q1: Directory Setup



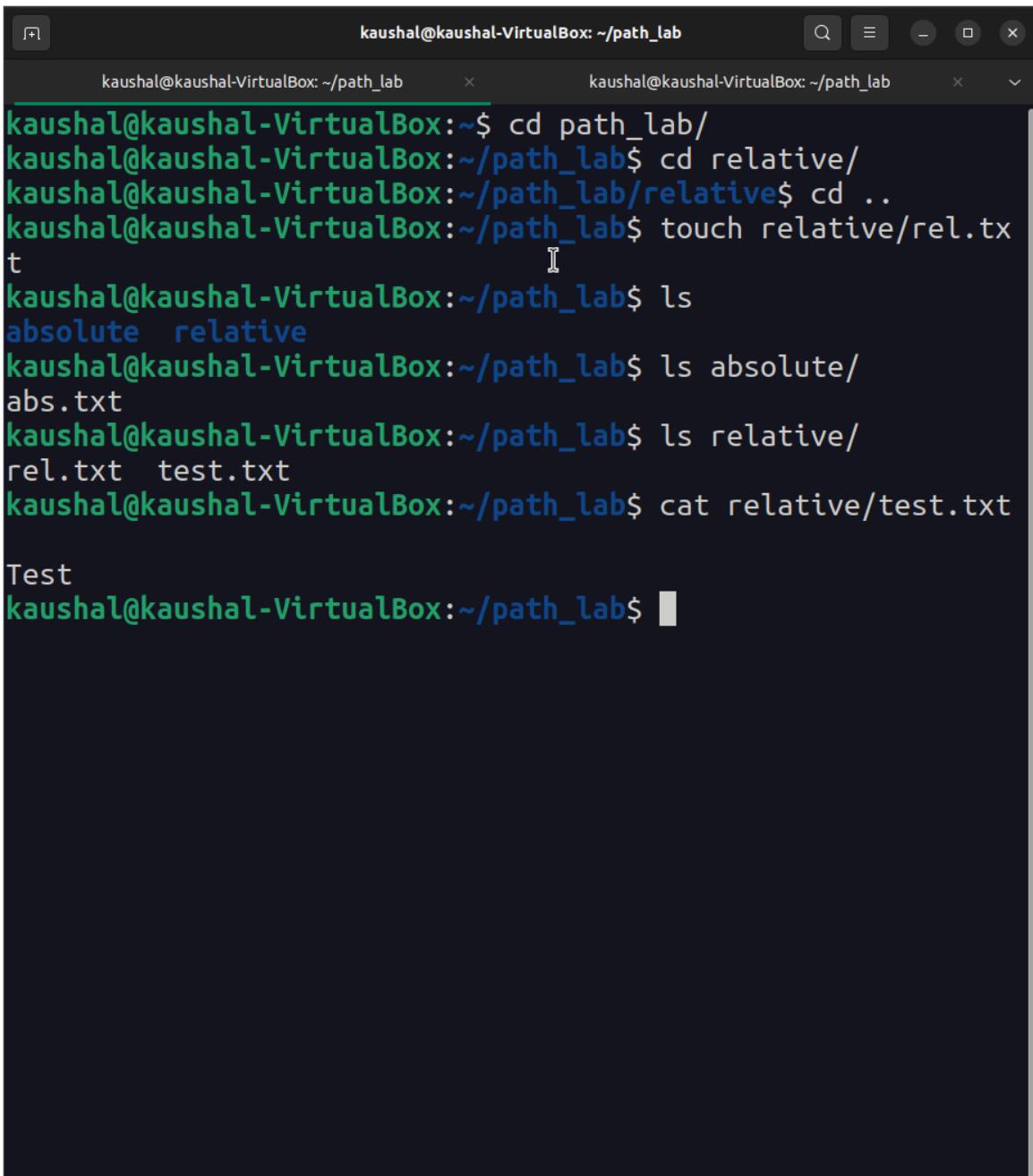
A screenshot of a terminal window titled "kaushal@kaushal-VirtualBox: ~". The terminal displays the following command-line session:

```
kaushal@kaushal-VirtualBox:~$ mkdir path_lab
kaushal@kaushal-VirtualBox:~$ mkdir path_lab/absolute
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: ~/path_lab/relative  x  kaushal@kaushal-VirtualBox: ~/path_lab  x  ▾
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/relkaushal@kaushal@kaushal-VirtualBox:~/path_lab/relative$
```

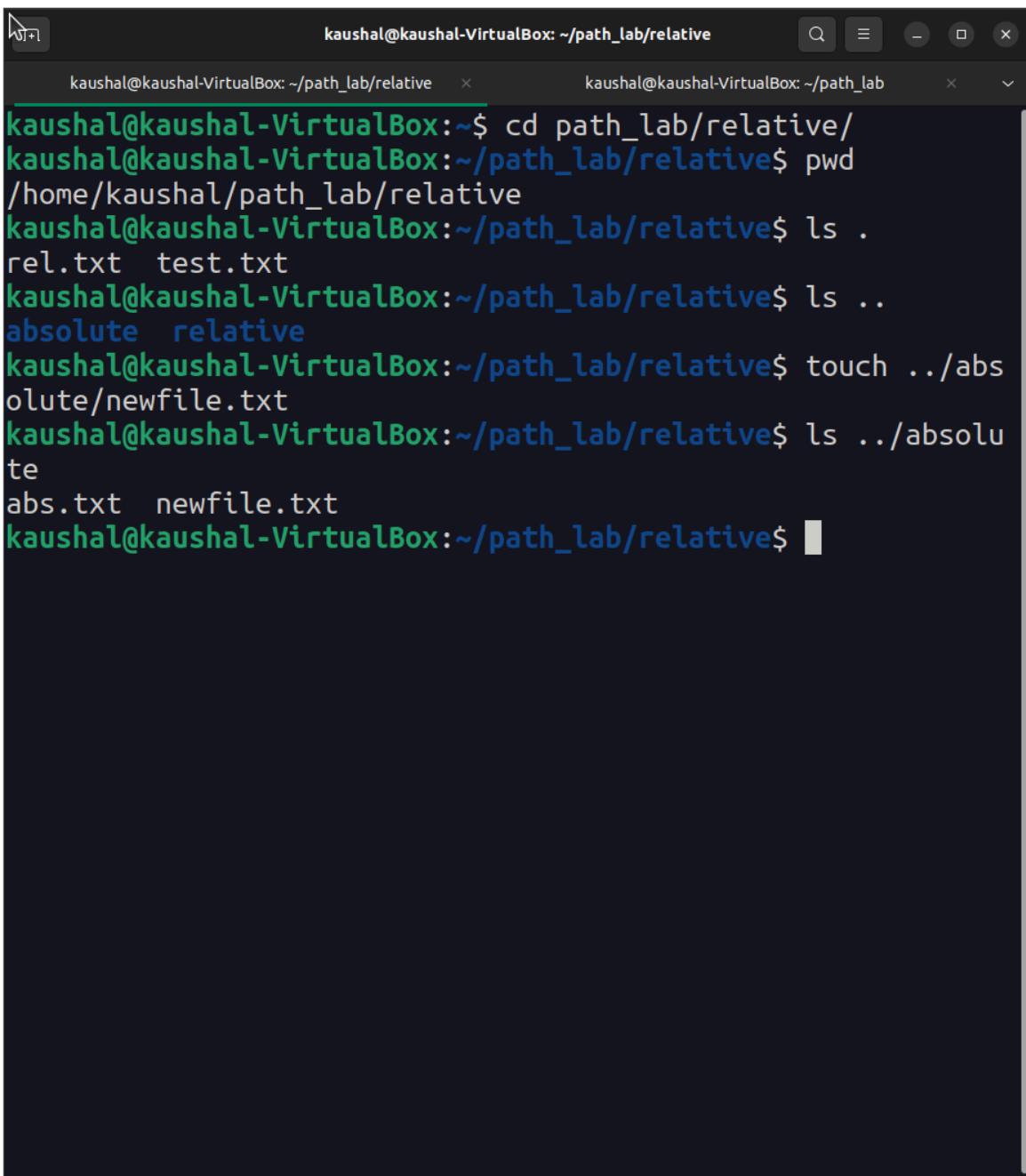
Q3: Relative Path Practice



The screenshot shows a terminal window with two tabs. Both tabs have the title "kaushal@kaushal-VirtualBox: ~/path_lab". The left tab contains the command history and output, while the right tab is currently inactive.

```
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.txt
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 ..



The screenshot shows a terminal window with two tabs. Both tabs have the title "kaushal@kaushal-VirtualBox: ~/path_lab/relative". The left tab contains the command history and output, while the right tab is empty.

```
kaushal@kaushal-VirtualBox:~/path_lab/relative$ cd 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$
```