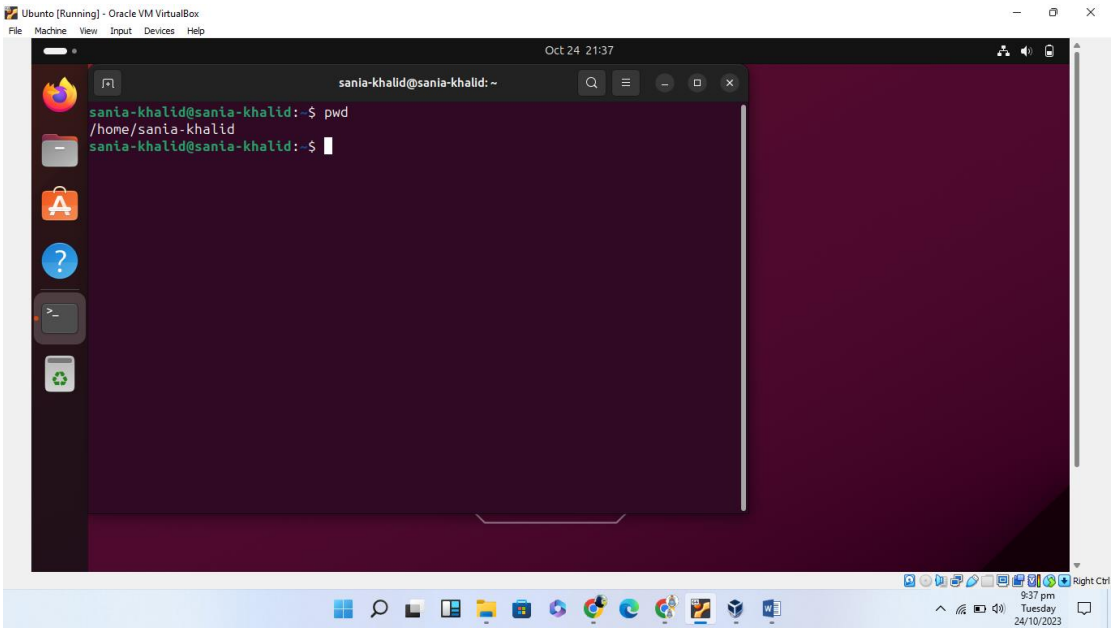
Sania Khalid

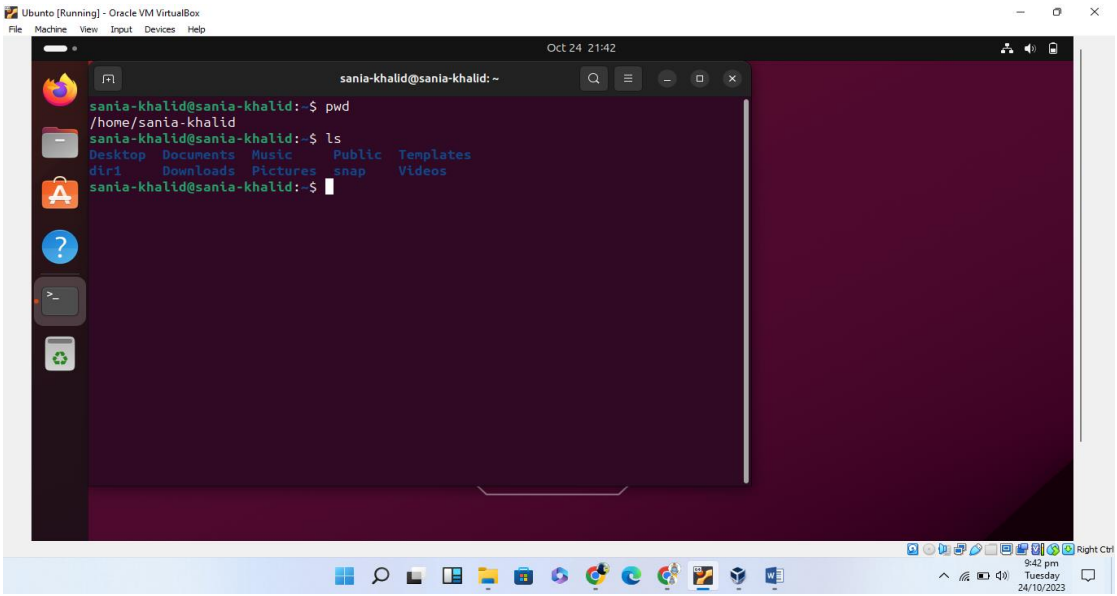
MSDSF23M016

Exercise 01

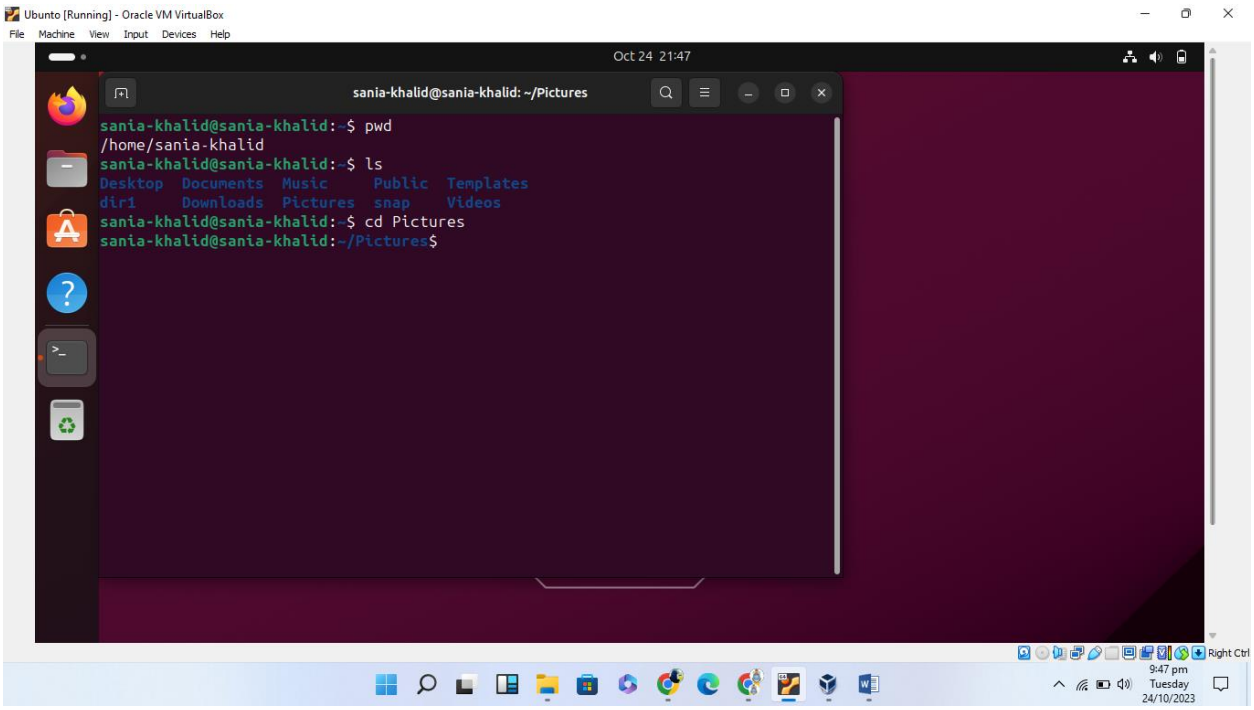
1. Pwd

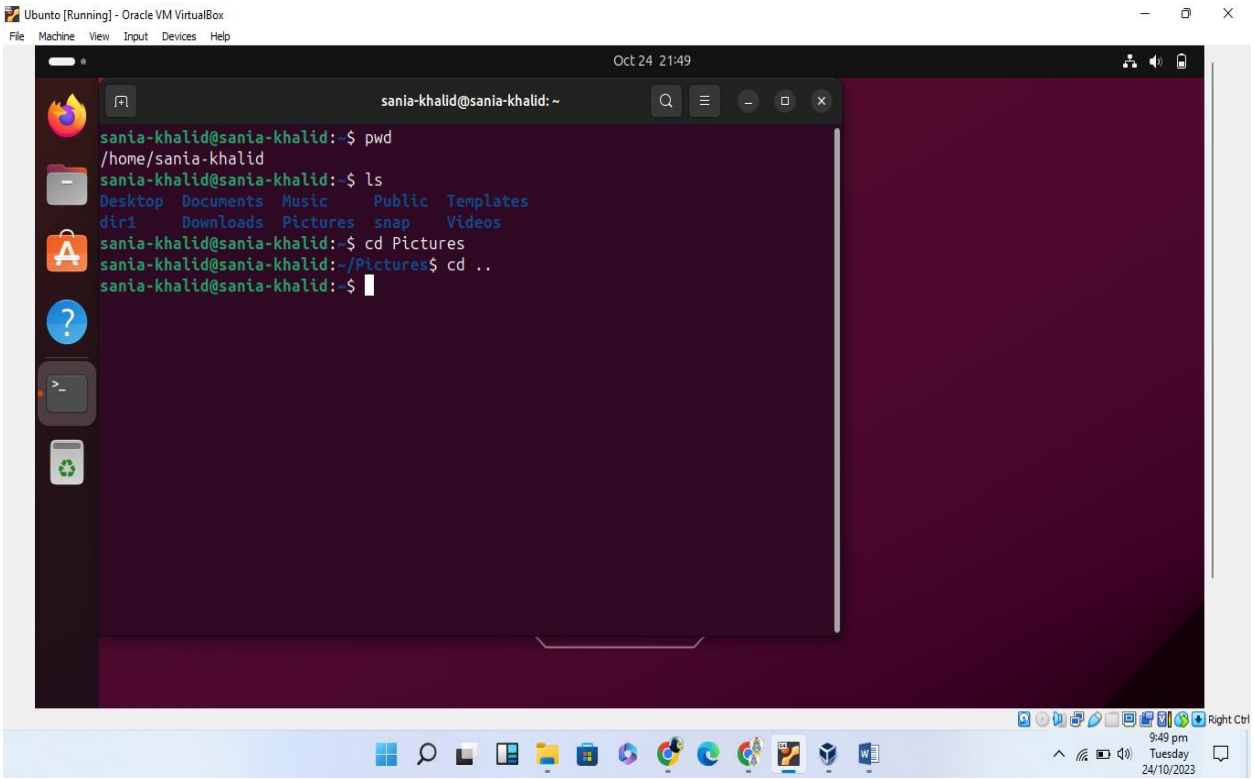


2. ls

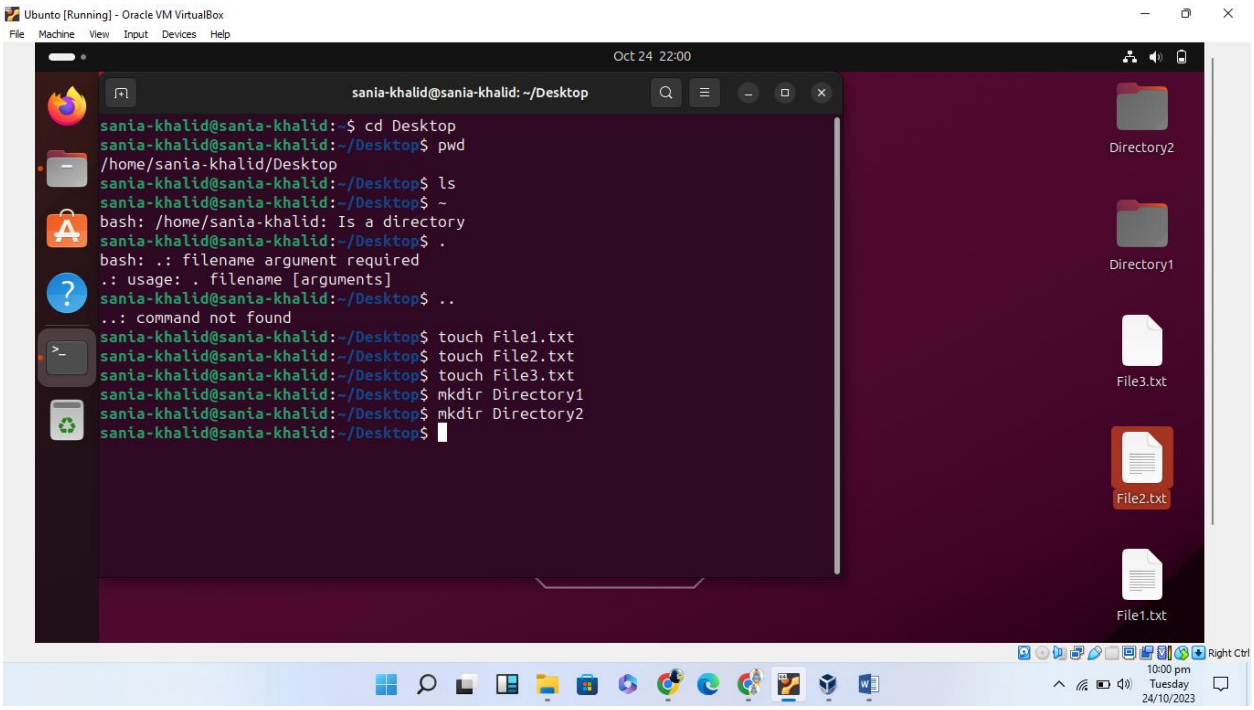


3. cd

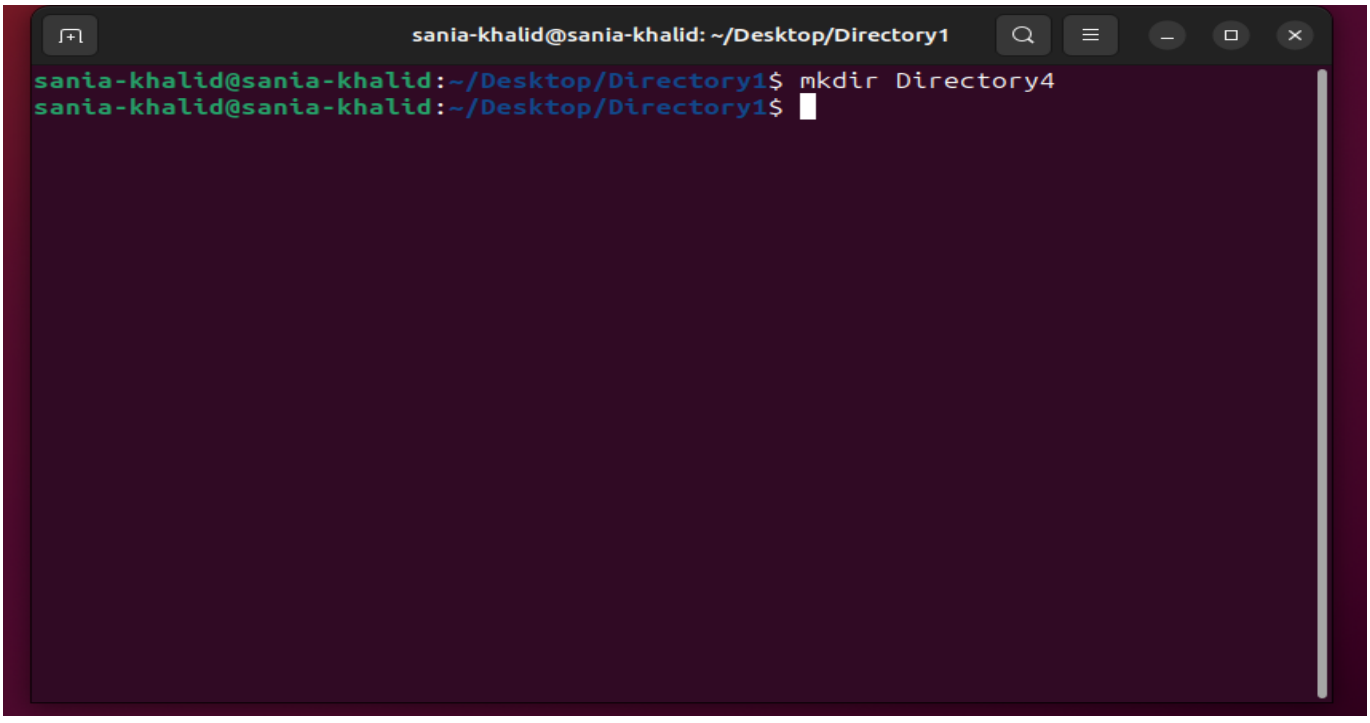

Ubunto [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Oct 24 21:47
sania-khalid@sania-khalid: ~/Pictures
sania-khalid@sania-khalid:~$ pwd
/home/sania-khalid
sania-khalid@sania-khalid:~$ ls
Desktop Documents Music Public Templates
dir1 Downloads Pictures snap Videos
sania-khalid@sania-khalid:~$ cd Pictures
sania-khalid@sania-khalid:~/Pictures$
Right Ctrl
9:47 pm
Tuesday
24/10/2023


Ubunto [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Oct 24 21:49
sania-khalid@sania-khalid: ~
sania-khalid@sania-khalid:~$ pwd
/home/sania-khalid
sania-khalid@sania-khalid:~$ ls
Desktop Documents Music Public Templates
dir1 Downloads Pictures snap Videos
sania-khalid@sania-khalid:~$ cd Pictures
sania-khalid@sania-khalid:~/Pictures$ cd ..
sania-khalid@sania-khalid:~$
Right Ctrl
9:49 pm
Tuesday
24/10/2023

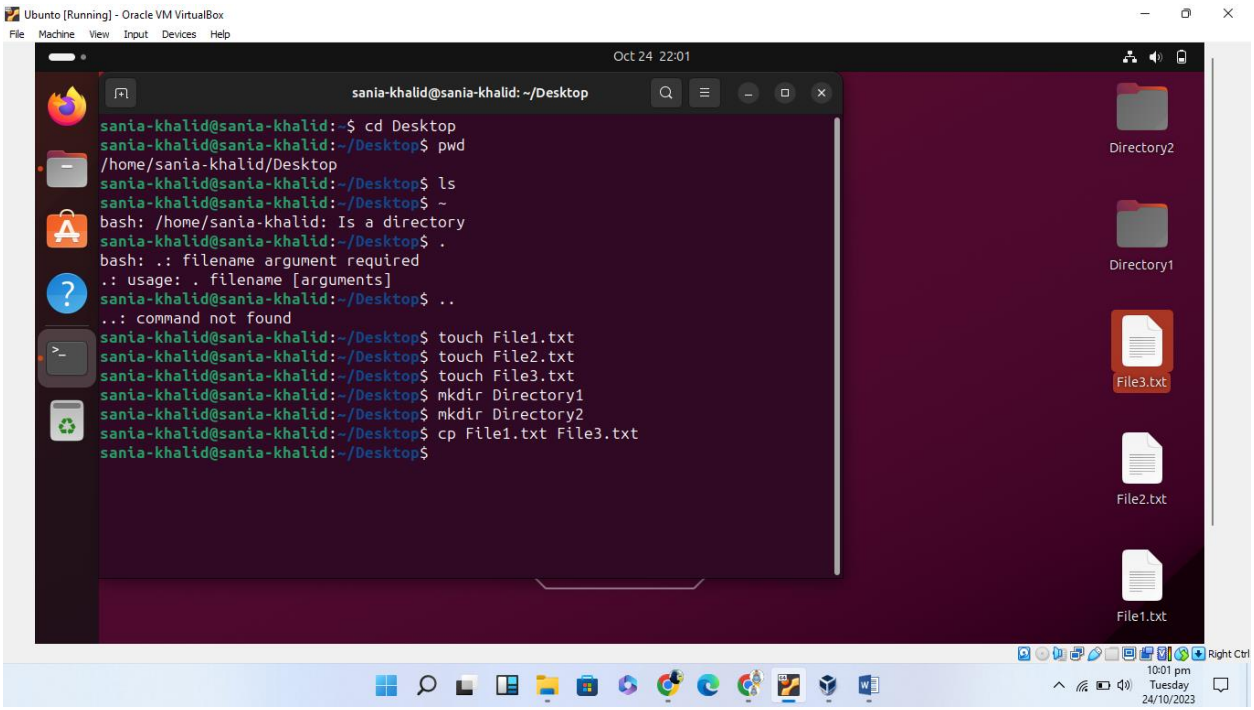
4. Touch



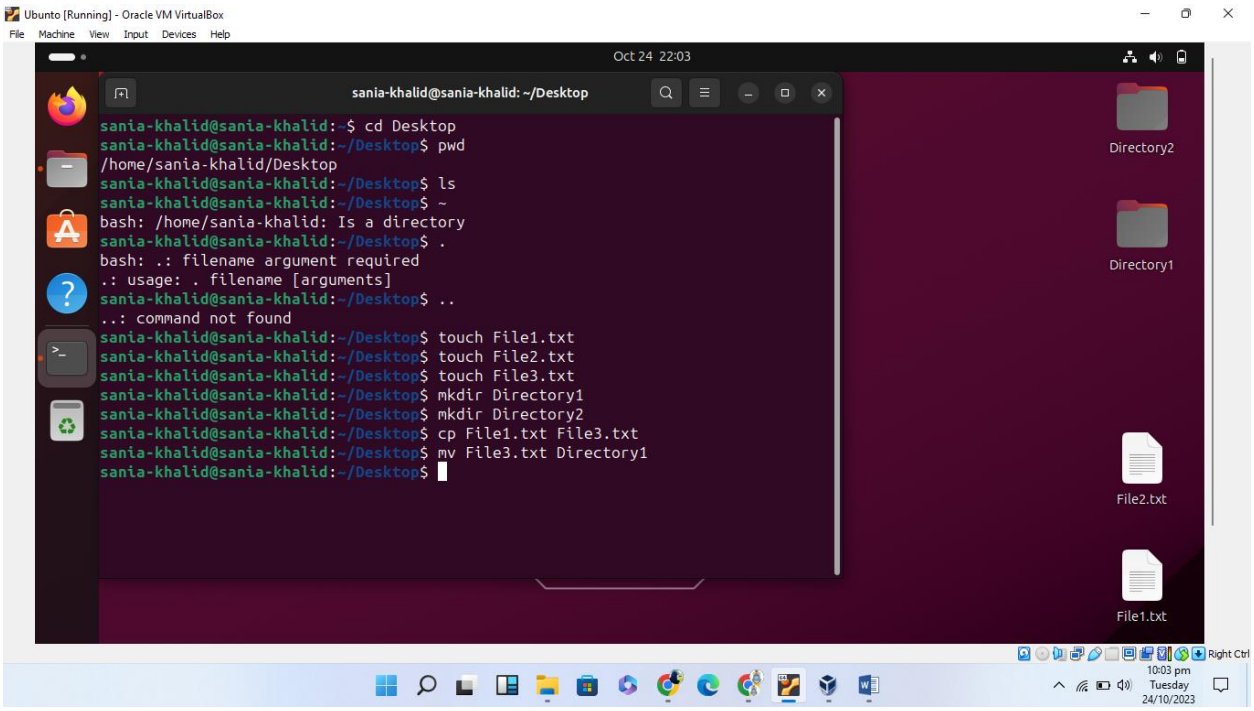
5. Mkdir



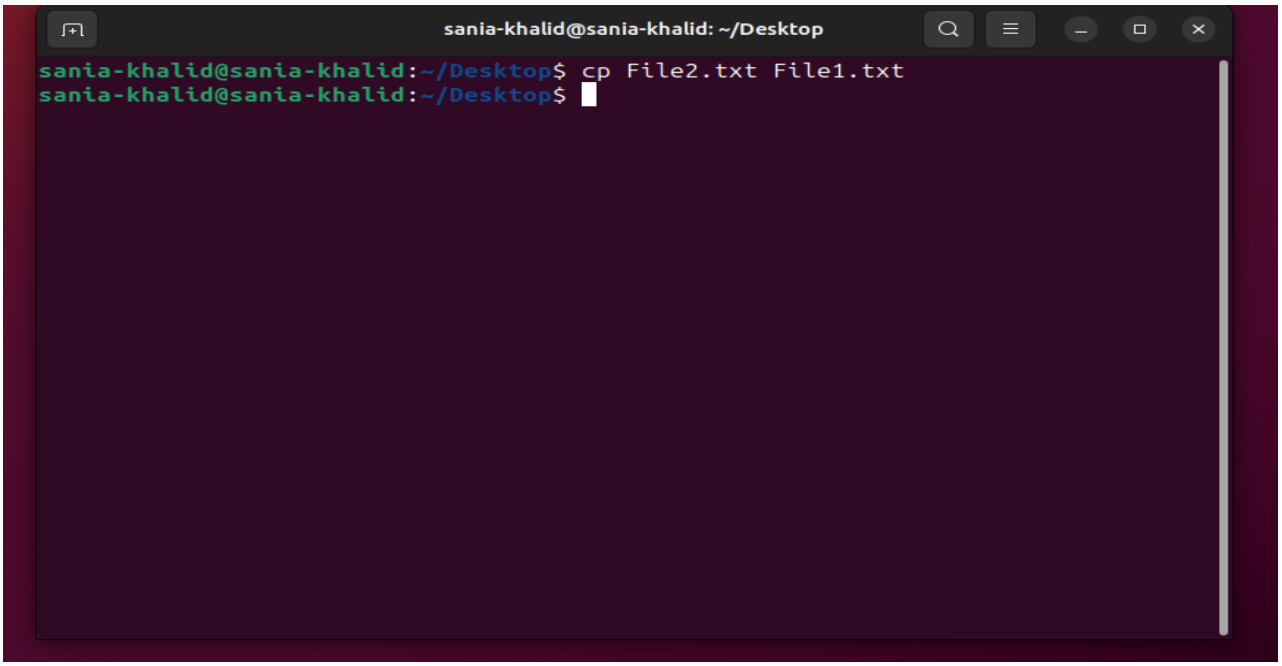
6. cp


Ubunto [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Oct 24 22:01
sania-khalid@sania-khalid: ~/Desktop
sania-khalid@sania-khalid:~$ cd Desktop
sania-khalid@sania-khalid:~/Desktop$ pwd
/home/sania-khalid/Desktop
sania-khalid@sania-khalid:~/Desktop$ ls
sania-khalid@sania-khalid:~/Desktop$ ~
bash: /home/sania-khalid: Is a directory
sania-khalid@sania-khalid:~/Desktop$.
bash: .: filename argument required
.: usage: . filename [arguments]
sania-khalid@sania-khalid:~/Desktop$ ..
..: command not found
sania-khalid@sania-khalid:~/Desktop$ touch File1.txt
sania-khalid@sania-khalid:~/Desktop$ touch File2.txt
sania-khalid@sania-khalid:~/Desktop$ touch File3.txt
sania-khalid@sania-khalid:~/Desktop$ mkdir Directory1
sania-khalid@sania-khalid:~/Desktop$ mkdir Directory2
sania-khalid@sania-khalid:~/Desktop$ cp File1.txt File3.txt
sania-khalid@sania-khalid:~/Desktop$
Directory2
Directory1
File3.txt
File2.txt
File1.txt
Right Ctrl
10:01 pm
Tuesday
24/10/2023

7. mv

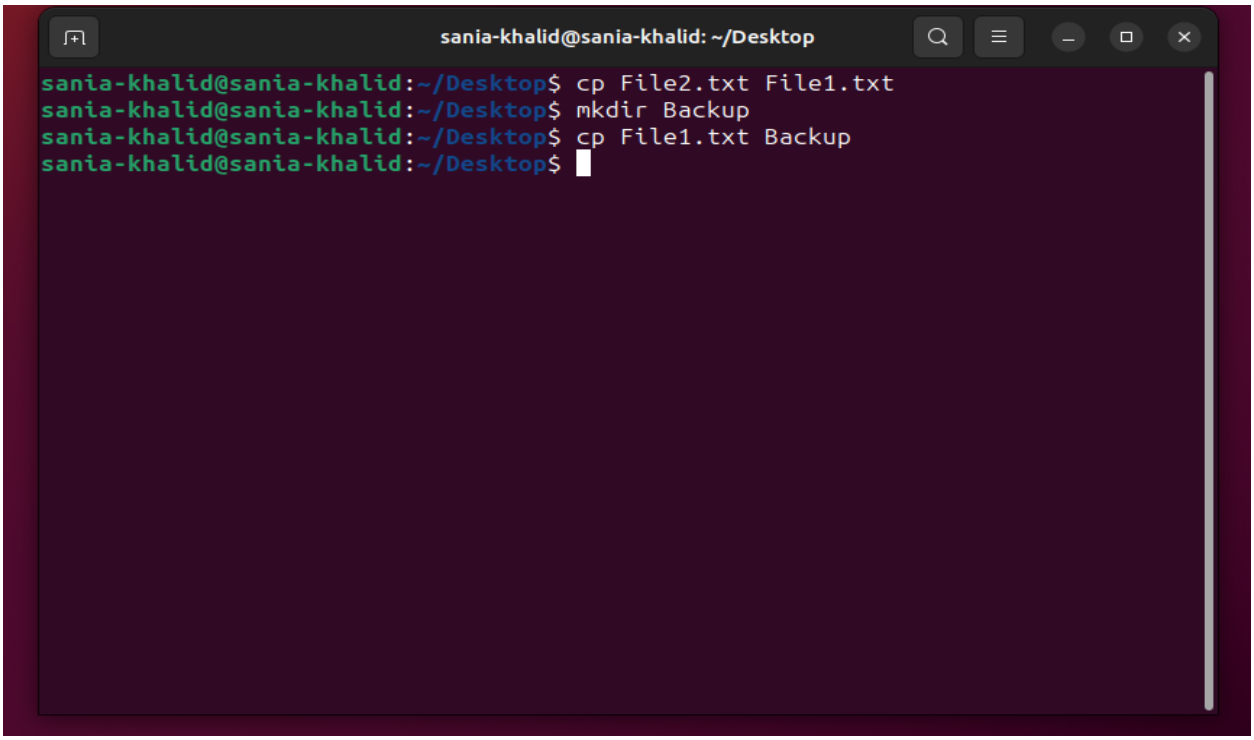

Ubunto [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Oct 24 22:03
sania-khalid@sania-khalid: ~/Desktop
sania-khalid@sania-khalid:~$ cd Desktop
sania-khalid@sania-khalid:~/Desktop$ pwd
/home/sania-khalid/Desktop
sania-khalid@sania-khalid:~/Desktop$ ls
sania-khalid@sania-khalid:~/Desktop$ ~
bash: /home/sania-khalid: Is a directory
sania-khalid@sania-khalid:~/Desktop$.
bash: .: filename argument required
.: usage: . filename [arguments]
sania-khalid@sania-khalid:~/Desktop$ ..
..: command not found
sania-khalid@sania-khalid:~/Desktop$ touch File1.txt
sania-khalid@sania-khalid:~/Desktop$ touch File2.txt
sania-khalid@sania-khalid:~/Desktop$ touch File3.txt
sania-khalid@sania-khalid:~/Desktop$ mkdir Directory1
sania-khalid@sania-khalid:~/Desktop$ mkdir Directory2
sania-khalid@sania-khalid:~/Desktop$ cp File1.txt File3.txt
sania-khalid@sania-khalid:~/Desktop$ mv File3.txt Directory1
sania-khalid@sania-khalid:~/Desktop$
Directory2
Directory1
File2.txt
File1.txt
Right Ctrl
10:03 pm
Tuesday
24/10/2023

Move the file copy.txt to the name copy2.txt. Use ls to verify that this command worked.

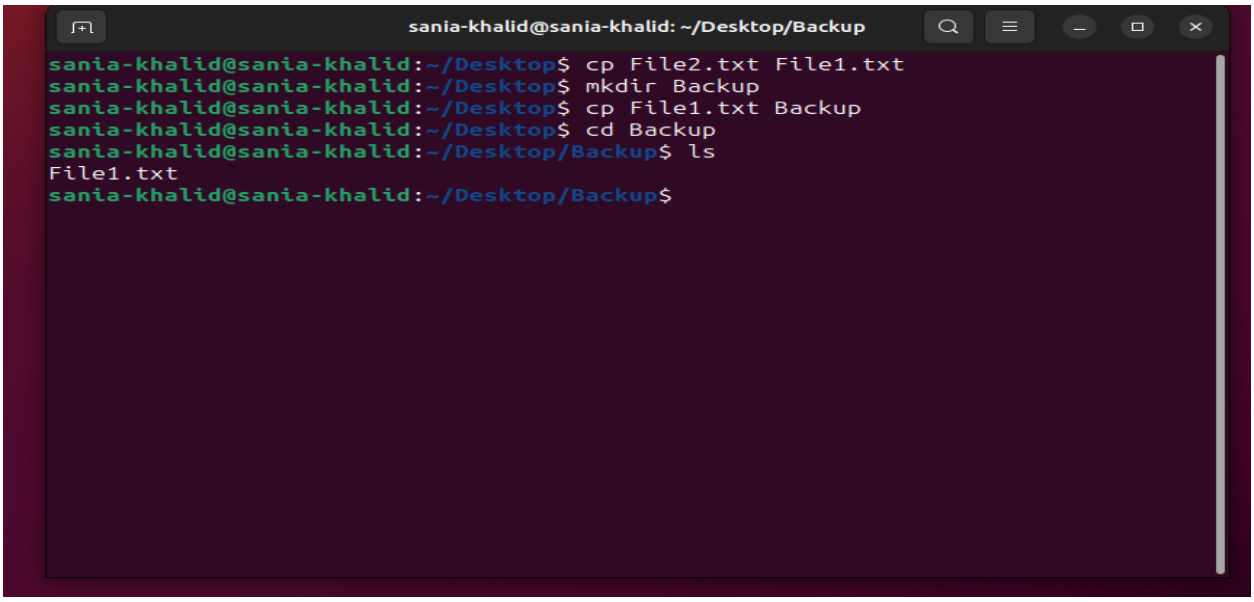


Make a new directory named backups using the mkdir command.

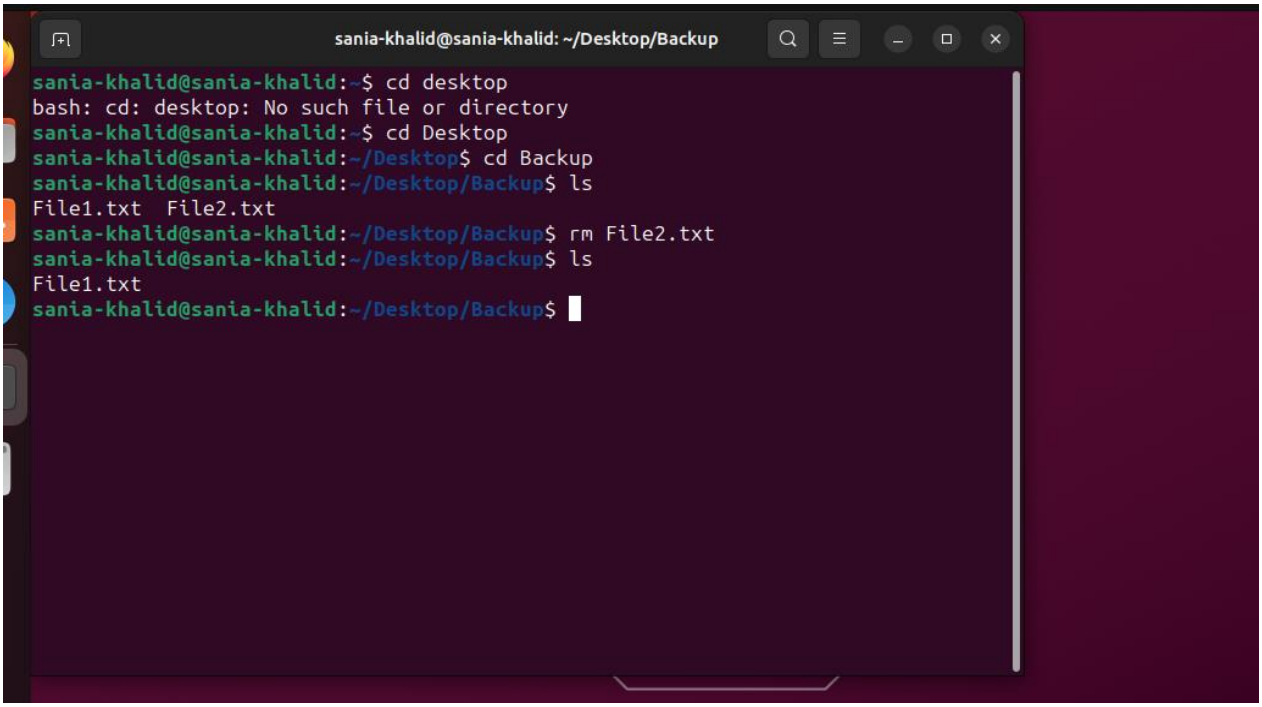
Copy the file copy2.txt to the backups directory.



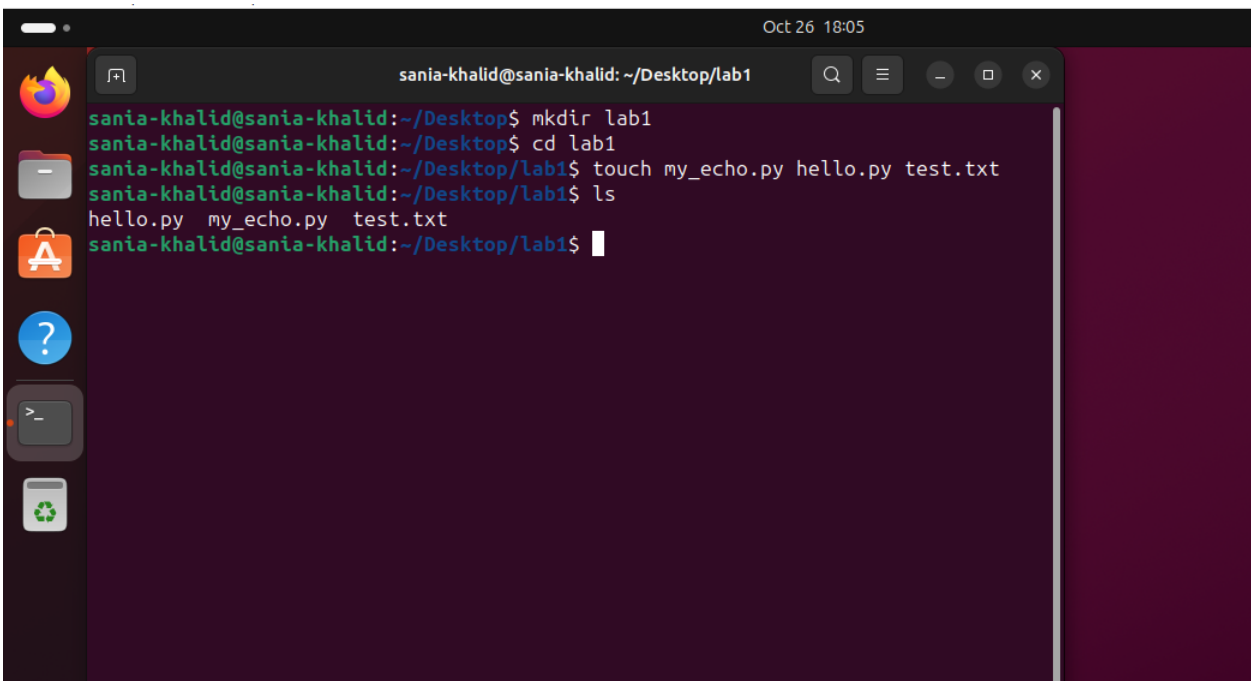
Verify that step (4) was successful by listing the files in the backups directory.

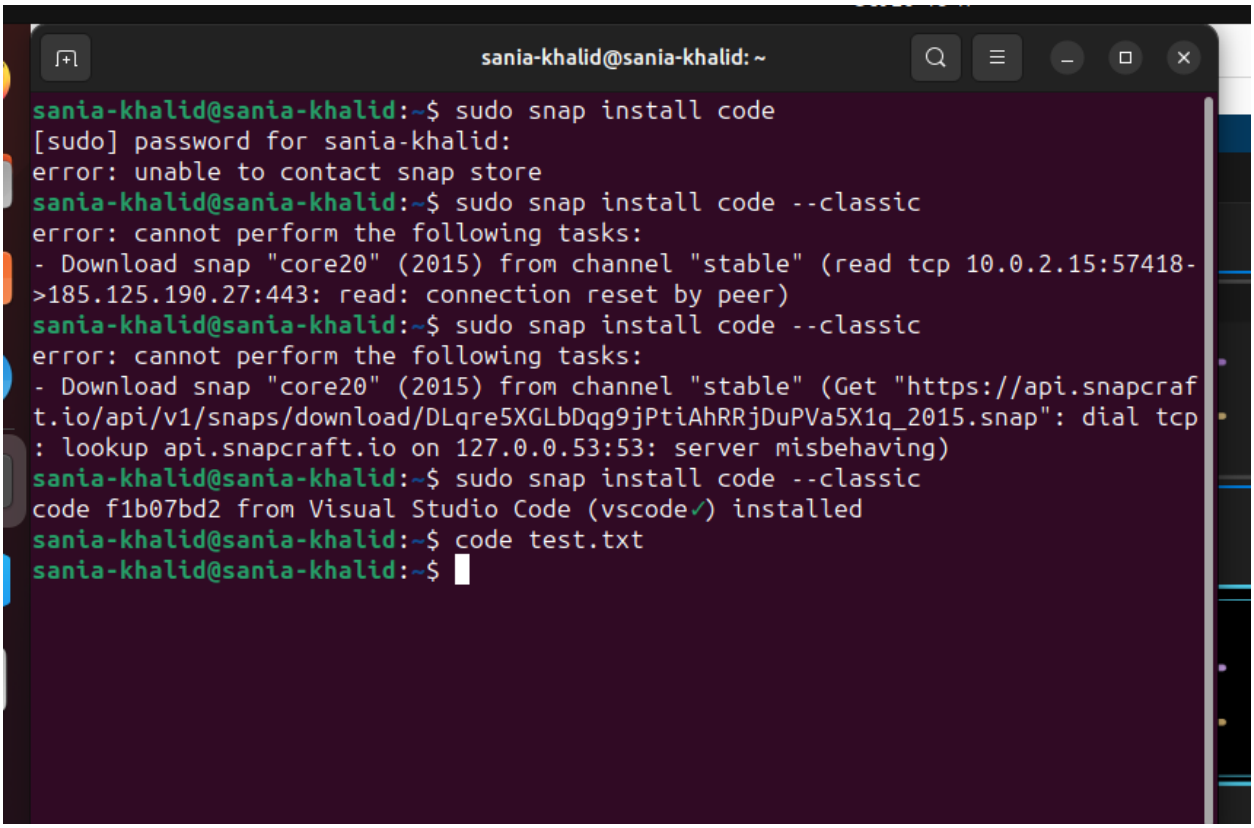


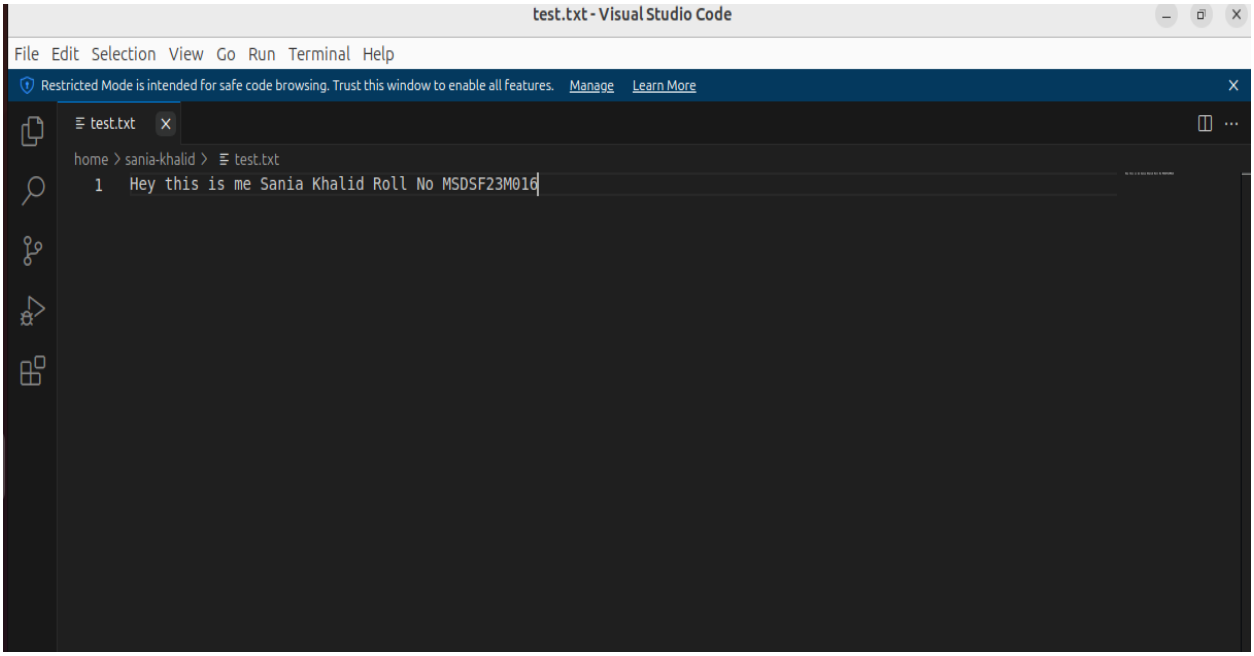
Now that we have a copy of test.txt in the backups directory we no longer need copy2.txt. Remove the file copy2.txt in this directory.



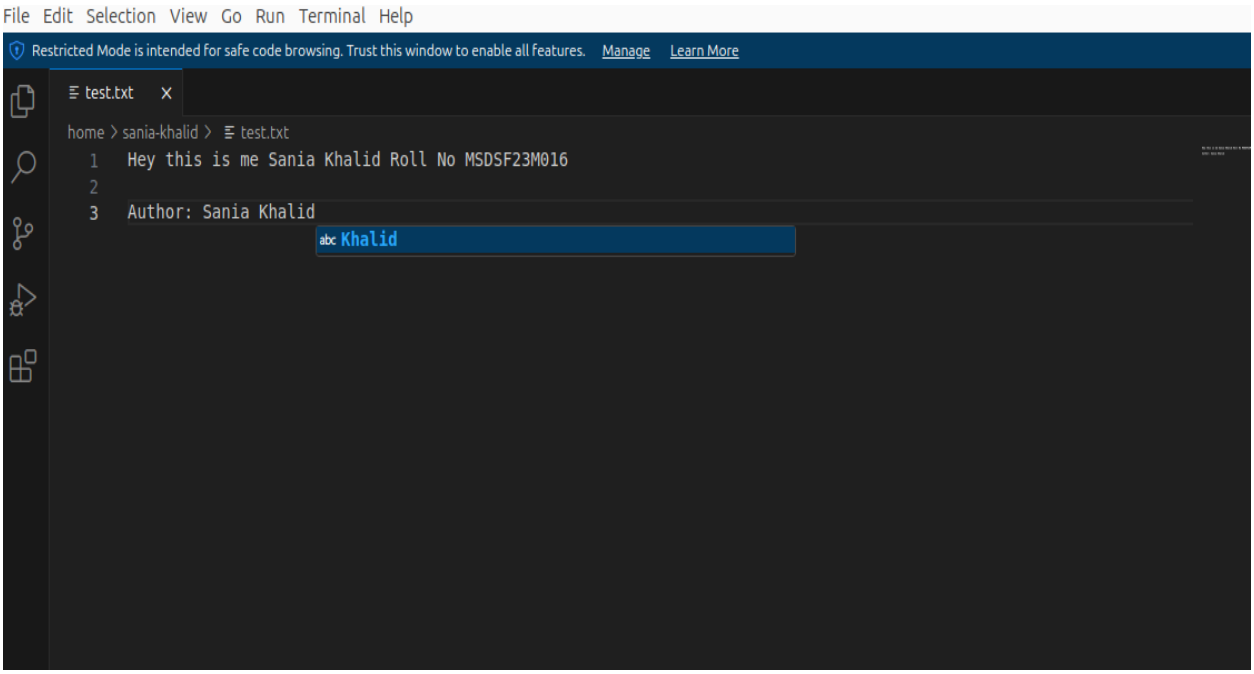
Exercise 2


Oct 26 18:05
sania-khalid@sania-khalid: ~/Desktop/lab1
sania-khalid@sania-khalid:~/Desktop$ mkdir lab1
sania-khalid@sania-khalid:~/Desktop$ cd lab1
sania-khalid@sania-khalid:~/Desktop/lab1$ touch my_echo.py hello.py test.txt
sania-khalid@sania-khalid:~/Desktop/lab1$ ls
hello.py my_echo.py test.txt
sania-khalid@sania-khalid:~/Desktop/lab1$

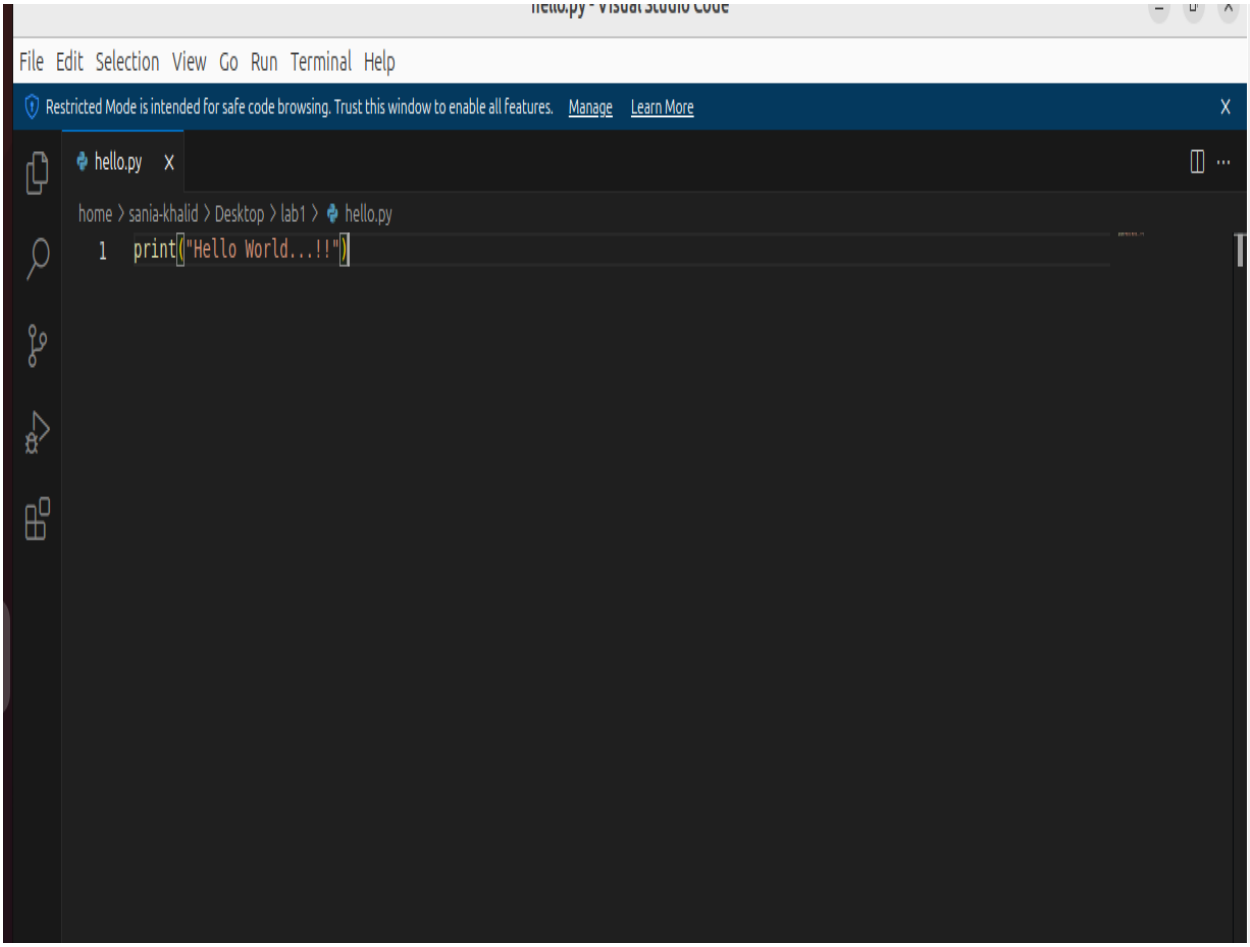

sania-khalid@sania-khalid: ~
sania-khalid@sania-khalid:~$ sudo snap install code
[sudo] password for sania-khalid:
error: unable to contact snap store
sania-khalid@sania-khalid:~$ sudo snap install code --classic
error: cannot perform the following tasks:
- Download snap "core20" (2015) from channel "stable" (read tcp 10.0.2.15:57418->185.125.190.27:443: read: connection reset by peer)
sania-khalid@sania-khalid:~$ sudo snap install code --classic
error: cannot perform the following tasks:
- Download snap "core20" (2015) from channel "stable" (Get "https://api.snapcraft.io/api/v1/snaps/download/DLqre5XGLbDqg9jPtiAhRRjDuPVa5X1q_2015.snap": dial tcp: lookup api.snapcraft.io on 127.0.0.53:53: server misbehaving)
sania-khalid@sania-khalid:~$ sudo snap install code --classic
code f1b07bd2 from Visual Studio Code (vscode✓) installed
sania-khalid@sania-khalid:~$ code test.txt
sania-khalid@sania-khalid:~$



1. **Add your name after Author: in this file**
2. **Save the file**
3. **Close and reopen the file in code and ensuring that your name is still there**
4. **Finally, close code.**



Exercise 03



Navigate to your linux_lab_remote directory. What do you see when you run ls pa*? What about ls pa*/*?

```
sania-khalid@sania-khalid:~$ cd Desktop
sania-khalid@sania-khalid:~/Desktop$ cd lab1
sania-khalid@sania-khalid:~/Desktop/lab1$ ls
hello.py  my_echo.py  test.txt
sania-khalid@sania-khalid:~/Desktop/lab1$ python3 hello.py
sania-khalid@sania-khalid:~/Desktop/lab1$ code hello.py
sania-khalid@sania-khalid:~/Desktop/lab1$ python3 hello.py
Hello World...!!
sania-khalid@sania-khalid:~/Desktop/lab1$
```

```
sania-khalid@sania-khalid:~/Desktop$ ls * .txt
ls: cannot access '.txt': No such file or directory
File1.txt  File2.txt

Backup:
File1.txt

Directory1:
Directory4  File3.txt

Directory2:

lab1:
hello.py  my_echo.py  test.txt
sania-khalid@sania-khalid:~/Desktop$
```

What do you expect to see when you run the command ls ../pa* from within your linux_lab_remote/lab1 directory?

```
sania-khalid@sania-khalid:~/Desktop$ ls pa*/*
ls: cannot access 'pa*/*': No such file or directory
sania-khalid@sania-khalid:~/Desktop$
```

```
sania-khalid@sania-khalid:~/Desktop$ ls ../pa*
ls: cannot access '../pa*': No such file or directory
sania-khalid@sania-khalid:~/Desktop$
```

Exercise 04

Use piping to chain together the printenv and tail commands to display the last 10 lines of output from printenv.

```
sania-khalid@sania-khalid:~/Desktop$ printenv | tail -n 10
SHLVL=1
QT_IM_MODULE=ibus
XDG_RUNTIME_DIR=/run/user/1000
DEBUGINFOD_URLS=https://debuginfod.ubuntu.com
XDG_DATA_DIRS=/usr/share/ubuntu:/usr/share/gnome:/usr/local/share/:/usr/share/:/var/lib/snapd/desktop
PATH=/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin:/usr/games:/usr/local/games:/snap/bin:/snap/bin
GDMSESSION=ubuntu
DBUS_SESSION_BUS_ADDRESS=unix:path=/run/user/1000/bus
_=/usr/bin/printenv
OLDPWD=/home/sania-khalid/Desktop/lab1
sania-khalid@sania-khalid:~/Desktop$
```

Replicate the above functionality without using the | operator. (hint: Use a temporary file.)

```
sania-khalid@sania-khalid:~/Desktop$ printenv > temp_file
sania-khalid@sania-khalid:~/Desktop$ tail -n 10 temp_file
SHLVL=1
QT_IM_MODULE=ibus
XDG_RUNTIME_DIR=/run/user/1000
DEBUGINFOD_URLS=https://debuginfod.ubuntu.com
XDG_DATA_DIRS=/usr/share/ubuntu:/usr/share/gnome:/usr/local/share/:/usr/share/:/var/lib/snapd/desktop
PATH=/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin:/usr/games:/usr/local/games:/snap/bin:/snap/bin
GDMSESSION=ubuntu
DBUS_SESSION_BUS_ADDRESS=unix:path=/run/user/1000/bus
_=/usr/bin/printenv
OLDPWD=/home/sania-khalid/Desktop/lab1
sania-khalid@sania-khalid:~/Desktop$ rm temp_file
sania-khalid@sania-khalid:~/Desktop$
```

Exercise 05

1. **Run echo "Hello!" > testfile to construct testfile. Look at the permissions using ls -l.**
2. **Change the permissions on testfile to allow and read access for others. Run ls -l testfile to check the new permissions.**
3. **Remove group write access from testfile. Check the corrected permissions.**
4. **Remove testfile using rm.**