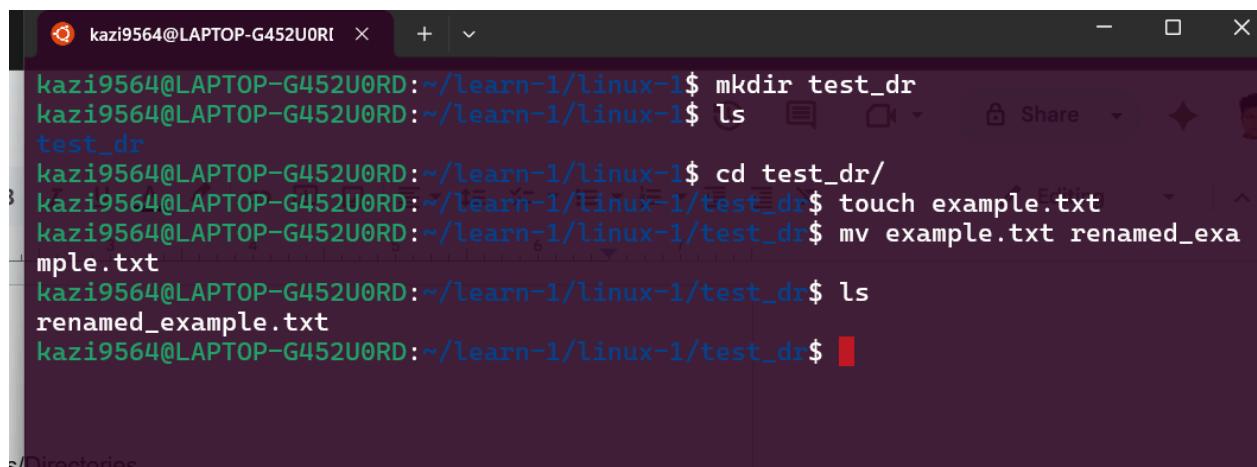


1. Creating and Renaming Files/Directories

Create a directory named test_dir using mkdir.

Inside test_dir, create an empty file called example.txt.

Rename example.txt to renamed_example.txt using mv



A screenshot of a terminal window titled "kazi9564@LAPTOP-G452U0RD". The window shows a command-line session:

```
kazi9564@LAPTOP-G452U0RD:~/learn-1/linux-1$ mkdir test_dr
kazi9564@LAPTOP-G452U0RD:~/learn-1/linux-1$ ls
test_dr
kazi9564@LAPTOP-G452U0RD:~/learn-1/linux-1$ cd test_dr/
kazi9564@LAPTOP-G452U0RD:~/learn-1/linux-1/test_dr$ touch example.txt
kazi9564@LAPTOP-G452U0RD:~/learn-1/linux-1/test_dr$ mv example.txt renamed_ex
mple.txt
kazi9564@LAPTOP-G452U0RD:~/learn-1/linux-1/test_dr$ ls
renamed_example.txt
kazi9564@LAPTOP-G452U0RD:~/learn-1/linux-1/test_dr$
```

2. Viewing File Contents

Use cat to display the contents of /etc/passwd.

```
kazi9564@LAPTOP-G452U0RD:~/learn-1/linux-1/test_dr$ mv example.txt renamed_example.txt
kazi9564@LAPTOP-G452U0RD:~/learn-1/linux-1/test_dr$ ls
renamed_example.txt
kazi9564@LAPTOP-G452U0RD:~/learn-1/linux-1/test_dr$ cat /etc/passwd
root:x:0:0:root:/root:/bin/bash
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
bin:x:2:2:bin:/bin:/usr/sbin/nologin
sys:x:3:3:sys:/dev:/usr/sbin/nologin
sync:x:4:65534:sync:/bin:/sync
games:x:5:60:games:/usr/games:/usr/sbin/nologin
man:x:6:12:man:/var/cache/man:/usr/sbin/nologin
lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin
mail:x:8:8:mail:/var/mail:/usr/sbin/nologin
news:x:9:9:news:/var/spool/news:/usr/sbin/nologin
uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin
proxy:x:13:13:proxy:/bin:/usr/sbin/nologin
www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin
backup:x:34:34:backup:/var/backups:/usr/sbin/nologin
list:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin
irc:x:39:39:ircd:/run/ircd:/usr/sbin/nologin
_apt:x:42:65534::/nonexistent:/usr/sbin/nologin
nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin
systemd-network:x:998:998:systemd Network Management:/:/usr/sbin/nologin
systemd-timesync:x:996:996:systemd Time Synchronization:/:/usr/sbin/nologin
dhcpcd:x:100:65534:DHCP Client Daemon,,,:/usr/lib/dhcpcd:/bin/false
messagebus:x:101:101::/nonexistent:/usr/sbin/nologin
syslog:x:102:102::/nonexistent:/usr/sbin/nologin
systemd-resolve:x:991:991:systemd Resolver:/:/usr/sbin/nologin
uuidd:x:103:103::/run/uuidd:/usr/sbin/nologin
landscape:x:104:105::/var/lib/landscape:/usr/sbin/nologin
polkitd:x:990:990:User for polkitd:/:/usr/sbin/nologin
kazi9564:x:1000:1000:,,,:/home/kazi9564:/bin/bash
kazi9564@LAPTOP-G452U0RD:~/learn-1/linux-1/test_dr$
```

Display only the first 5 lines of /etc/passwd using head.

```
kazi9564@LAPTOP-G452U0RD:~/learn-1/linux-1/test_dr$ head -n 5 /etc/passwd
root:x:0:0:root:/root:/bin/bash
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
bin:x:2:2:bin:/bin:/usr/sbin/nologin
sys:x:3:3:sys:/dev:/usr/sbin/nologin
sync:x:4:65534:sync:/bin:/sync
kazi9564@LAPTOP-G452U0RD:~/learn-1/linux-1/test_dr$
```

Display only the last 5 lines of /etc/passwd using tail.

```
kazi9564@LAPTOP-G452U0RD:~/learn-1/linux-1/test_dr$ tail -n 5 /etc/passwd
systemd-resolve:x:991:991:systemd Resolver:/:/usr/sbin/nologin
uuidd:x:103:103::/run/uuidd:/usr/sbin/nologin
landscape:x:104:105::/var/lib/landscape:/usr/sbin/nologin
polkitd:x:990:990:User for polkitd:/:/usr/sbin/nologin
kazi9564:x:1000:1000:,,,:/home/kazi9564:/bin/bash
kazi9564@LAPTOP-G452U0RD:~/learn-1/linux-1/test_dr$
```

3. Searching for Patterns

Use grep to find all lines containing the word "root" in /etc/passwd.

```
kazi9564@LAPTOP-G452U0RD:~/learn-1/linux-1/test_dr$ grep "root" /etc/passwd  
root:x:0:0:root:/bin/bash  
kazi9564@LAPTOP-G452U0RD:~/learn-1/linux-1/test_dr$
```

4. Zipping and Unzipping

Compress the test_dir directory into a file named test_dir.zip using zip.

Unzip test_dir.zip into a new directory named unzipped_dir.

5. Downloading Files

Use wget to download a file from a URL (e.g., <https://example.com/sample.txt>).

6. Changing Permissions

Create a file named secure.txt and change its permissions to read-only for everyone using chmod.

```
kazi9564@LAPTOP-G452U0RD:~/learn-1/linux-1$ touch secure.txt
kazi9564@LAPTOP-G452U0RD:~/learn-1/linux-1$ ls
pikachu  secure.txt  test_dir  test_dir.zip  unzipped_dir
kazi9564@LAPTOP-G452U0RD:~/learn-1/linux-1$ ls -l
total 268 of Linux Basics assignment
-rw-r--r-- 1 kazi9564 kazi9564 260240 Dec  7 11:36 pikachu
-rw-r--r-- 1 kazi9564 kazi9564     0 Dec  7 11:37 secure.txt
drwxr-xr-x 2 kazi9564 kazi9564  4096 Dec  7 11:18 test_dir
-rw-r--r-- 1 kazi9564 kazi9564    352 Dec  7 11:30 test_dir.zip
drwxr-xr-x 3 kazi9564 kazi9564  4096 Dec  7 11:32 unzipped_dir
kazi9564@LAPTOP-G452U0RD:~/learn-1/linux-1$ chmod 444 secure.txt
kazi9564@LAPTOP-G452U0RD:~/learn-1/linux-1$ ls -l
total 268 tabs
-rw-r--r-- 1 kazi9564 kazi9564 260240 Dec  7 11:36 pikachu
-r--r--r-- 1 kazi9564 kazi9564     0 Dec  7 11:37 secure.txt
drwxr-xr-x 2 kazi9564 kazi9564  4096 Dec  7 11:18 test_dir
-rw-r--r-- 1 kazi9564 kazi9564    352 Dec  7 11:30 test_dir.zip
drwxr-xr-x 3 kazi9564 kazi9564  4096 Dec  7 11:32 unzipped_dir
kazi9564@LAPTOP-G452U0RD:~/learn-1/linux-1$
```

7. Working with Environment Variables

Use export to set a new environment variable called MY_VAR with the value "Hello, Linux!".

```
drwxr-xr-x 3 kazi9564 kazi9564 4096 Dec 9 7 11:32 unzipped_dir
kazi9564@LAPTOP-G452U0RD:~/learn-1/linux-1$ export MY_VAR="Hello, Linux!"
with the va
kazi9564@LAPTOP-G452U0RD:~/learn-1/linux-1$ env | grep MY_VAR
MY_VAR=Hello, Linux!
kazi9564@LAPTOP-G452U0RD:~/learn-1/linux-1$
```

Submission Guidelines :- Attach Screenshots or command along with explanation and submit in doc(google doc or microsoft doc) format also attach github repo link