Linux Tasks Report

GitHub repo URL = https://github.com/Priya-Kumari-108/Linux-basic-assignment

1. Creating and Renaming Files/Directories Commands:

```
mkdir test_dir
cd test_dir
touch example.txt
mv example.txt renamed_example.txt
```

Explanation:

- mkdir creates a directory.
- touch creates an empty file.
- mv is used to rename or move files.

```
priya@priya-VivoBook-ASUSLaptop-X571LH-F571LH:-$ ls
Desktop Downloads Music Public snap
Documents Miniconda3 Pictures pythonprj.py Templates
priya@priya-VivoBook-ASUSLaptop-X571LH-F571LH:-$ mkdir test_dir
priya@priya-VivoBook-ASUSLaptop-X571LH-F571LH:-$ cd test_dir
priya@priya-VivoBook-ASUSLaptop-X571LH-F571LH:-$ cd test_dir
priya@priya-VivoBook-ASUSLaptop-X571LH-F571LH:-$ touch example.txt
priya@priya-VivoBook-ASUSLaptop-X571LH-F571LH:-$ test_dir$ touch example.txt
priya@priya-VivoBook-ASUSLaptop-X571LH-F571LH:-$ first_dir$ touch example.txt
priya@priya-Viv
```

2. Viewing File Contents Commands:

```
cat my_passwd
head -n 5 my_passwd
tail -n 5 my_passwd
```

Explanation:

- cat displays the whole file.
- head -n 5 shows the first 5 lines.
- tail -n 5 shows the last 5 lines.

```
priya@priya-VivoBook-ASUSLaptop-X571LH-F571LH: ~
  riya@priya-VivoBook-ASUSLaptop-X571LH-F571LH:~$ pwd
/home/priva
 priya@priya-VivoBook-ASUSLaptop-X571LH-F571LH:~$ ls
Documents miniconda3 Pictures pythonprj.py Templates
priya@priya-VivoBook-ASUSLaptop-X571LH-F571LH:-$ touch my_passwd
priya@priya-VivoBook-ASUSLaptop-X571LH-F571LH:-$ pwd
 priya@priya-VivoBook-ASUSLaptop-X571LH-F571LH:-$ ls
                                               Music Pictures pythonprj.py Templates
my_passwd Public span
 priya@priya-VivoBook-ASUSLaptop-X571LH-F571LH:~$ cd my_passwd
bash: cd: my_passwd: Not a directory
priya@priya-VivoBook-ASUSLaptop-X571LH-F571LH:-$ echo "hello" >my_passwd
priya@priya-VivoBook-ASUSLaptop-X571LH-F571LH:-$ cat my_passwd
hello
priya@priya-VivoBook-ASUSLaptop-X571LH-F571LH:-$ echo "i am student">>my_passwd
priya@priya-VivoBook-ASUSLaptop-X571LH-F571LH:-$ echo "Atomic Habits">>my_passwd
priya@priya-VivoBook-ASUSLaptop-X571LH-F571LH:-$ echo "Become the best version of yourself">>my_passwd
priya@priya-VivoBook-ASUSLaptop-X571LH-F571LH:-$ echo "Bake the cues of good habits">>my_passwd
priya@priya-VivoBook-ASUSLaptop-X571LH-F571LH:-$ echo "Make the cues of good habits">>my_passwd
priya@priya-VivoBook-ASUSLaptop-X571LH-F571LH:-$ echo "Mhat will other think of me">>my_passwd
priya@priya-VivoBook-ASUSLaptop-X571LH-F571LH:-$ echo "create an environment where doing the right thing is as easy as possible">>my_passwd
priya@priya-VivoBook-ASUSLaptop-X571LH-F571LH:-$ cat my_passwd
 hello
 i am student
Atomic Habits
Become the best version of yourself
Make the cues of good habits
What will other think of me
create an environment where doing the right thing is as easy as possible priya@priya-VivoBook-ASUSLaptop-X571LH-F571LH:-$ head -n 5 my passwd
i am student
Atomic Habits
Become the best version of yourself
Make the cues of good habits
  oriya@priya-VivoBook-ASUSLaptop-X571LH-F571LH:-$ tail -n 5 my_passwd
Atomic Habits
Become the best version of yourself
Make the cues of good habits
What will other think of me
create an environment where doing the right thing is as easy as possible
priya@priya-VivoBook-ASUSLaptop-X571LH-F571LH:-$
```

3. Searching for Patterns Command:

grep "root" my_passwd

Explanation:

• grep searches for the word "root" in each line.

```
priya@priya-VivoBook-ASUSLaptop-X571LH-F571LH:-$ cat my_passwd
hello
i am student
Atomic Habits
Become the best version of yourself
Make the cues of good habits
never delete the root account
root is the superuser in linux
priya@priya-VivoBook-ASUSLaptop-X571LH-F571LH:-$ grep "root" my_passwd
never delete the root account
root is the superuser in linux
priya@priya-VivoBook-ASUSLaptop-X571LH-F571LH:-$
```

4. Zipping and Unzipping Commands:

```
cd ..
zip -r test_dir.zip test_dir
unzip test_dir.zip -d unzipped_dir
```

Explanation:

- zip -r compresses a folder.
- unzip -d extracts it into a new directory.

5. Downloading Files Command:

wget https://www.w3.org/TR/PNG/iso_8859-1.txt

Explanation:

• wget downloads a file from the given URL.

```
priya@priya-VivoBook-ASUSLaptop-X571LH-F571LH:- 5 pwd 
/home/priya 
priya@priya-VivoBook-ASUSLaptop-X571LH-F571LH:- 5 pwd 
/home/priya 
priya@priya-VivoBook-ASUSLaptop-X571LH-F571LH:- 5 ls 
Desktop Bouments Downloads miniconda3 Nusic my_passwd Pictures Public pythonpri,py snap Templates test_dir_test_dir_zip unzipped_dir Videos 
priya@priya-VivoBook-ASUSLaptop-X571LH-F571LH:- 5 weget https://www.w3.org/TR/PNG/iso_8859-1.txt 
Command 'weget' from deb wapython-tools (d.2.1+dfsg-3) 
command 'weget' from deb wapget (6.6.1-2) 
command 'weget' from deb wapget (6.6.1-2) 
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ryiva@priya-VivoBook-ASUSLaptop-X571LH-F571LH:- 5 wget https://www.w3.org/TR/PNG/iso_8859-1.txt 
-_2025-66-18 09:50:16-- https://www.w3.org/TR/PNG/iso_8859-1.txt 
-_2025-66-18 09:50:16-- within-F571LH:- 5 wget https://www.w3.org/TR/PNG/iso_8859-1.txt 
PRESOlving mww.w3.org (www.w3.org).regel:741c:8759:16:19e3:8f51, 104.18.23.19, 104.18.22.19 
Connecting to www.w3.org (www.w3.org).regel:741c:8759:16:19e3:8f51|:443... connected. 
HTTP request sent, awaiting response... 381 Moved Pernamently 
Location: https://www.w3.org/TR/png/iso_8859-1.txt 
Reusing existing connection to [www.w3.org/TR/png/iso_8859-1.txt 
Reusing existing existing e
```

6. Changing PermissionsCommands:

```
chmod 421 my_passwd
ls -l my_passwd
```

Explanation:

chmod 421 gives read permission to the owner, write to the group, and execute to others."

```
priya@priya-VivoBook-ASUSLaptop-X571LH-F571LH:-5 pwd
//nome/priya
priya?y-a-VivoBook-ASUSLaptop-X571LH-F571LH:-5 ls
Desitop Documents Downloads stalcondal Nusic my_passwd Pictures Public pythonprj.py snap Templates test_dir_test_dir_zip unzipped_dir Videos
priya@priya-VivoBook-ASUSLaptop-X571LH-F571LH:-5 ls
Desitop Documents Downloads stalcondal Nusic my_passwd Pictures Public pythonprj.py snap Templates test_dir_test_dir_zip unzipped_dir Videos
priya@priya-VivoBook-ASUSLaptop-X571LH-F571LH:-6 wegt https://www.w3.org/TR/PNG/iso_8859-1.txt
command 'waget' from deb waget (1.21.4-1ubuntu4.1)
priya@priya-VivoBook-ASUSLaptop-X571LH-F571LH:-5 wget https://www.w3.org/TR/PNG/iso_8859-1.txt
-2025-86-18 09:50:16-- https://www.w3.org/TR/PNG/iso_8859-1.txt
Resolving www.w3.org (wmw.w3.org)(x8-66:4700:990=1:741c:8759:16:190=3:8f51, 104.18.23.19, 104.18.22.19
Connecting to www.w3.org (wmw.w3.org)(x8-66:4700:990=1:741c:8759:16:190=3:8f51|:443... connected.

HTTP request sent, awaiting response... 301 Moved Permanently
Location: https://www.w3.org/TR/png/iso_8859-1.txt
Reusing existing connection to (www.w3.org):443.
HTTP request sent, awaiting response... 404 Not Found
2025-66-18 09:50:19 ERRON 404: Not Found.
2025-66-18 09:50:19 ERRON 404: No
```

7. Working with Environment Variables Commands:

```
export my_var="Hello, Linux!"
echo $my_var
```

Explanation:

- export sets a new environment variable.
- echo displays its value.

```
priya@priya-VivoBook-ASUSLaptop-X571LH-F571LH:-$ pwd
//home/priya
artya@priya-VivoBook-ASUSLaptop-X571LH-F571LH:-$ pwd
//home/priya
artya@priya-VivoBook-ASUSLaptop-X571LH-F571LH:-$ ls
Desktop Documents Downloads anterconda3 Music my_passwd Pictures Public pythonprij.py snap Templates teat.dir.text.dir.zio unzipped_dir Videos
artya@priya-VivoBook-ASUSLaptop-X571LHpriya@priya-VivoBook-ASUSLaptop-X571LH-F571LH:-$ weget https://www.w3.org/TR/PNG/iso_8859-1.txt
Command 'waget' from deb wmyst (e.6.1-2)
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command 'waget' yellowskilla getsons (e.6.1-2)
command 'waget' yellowskilla
```