

# VISHWAS CP

## Assignment for Linux skills

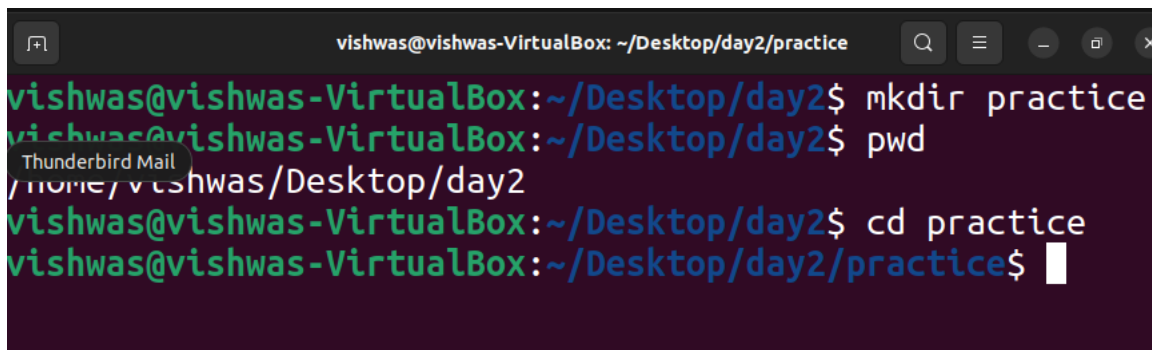
**Format: Lab Session**

**Time: 90 mins**

**Instruction:**

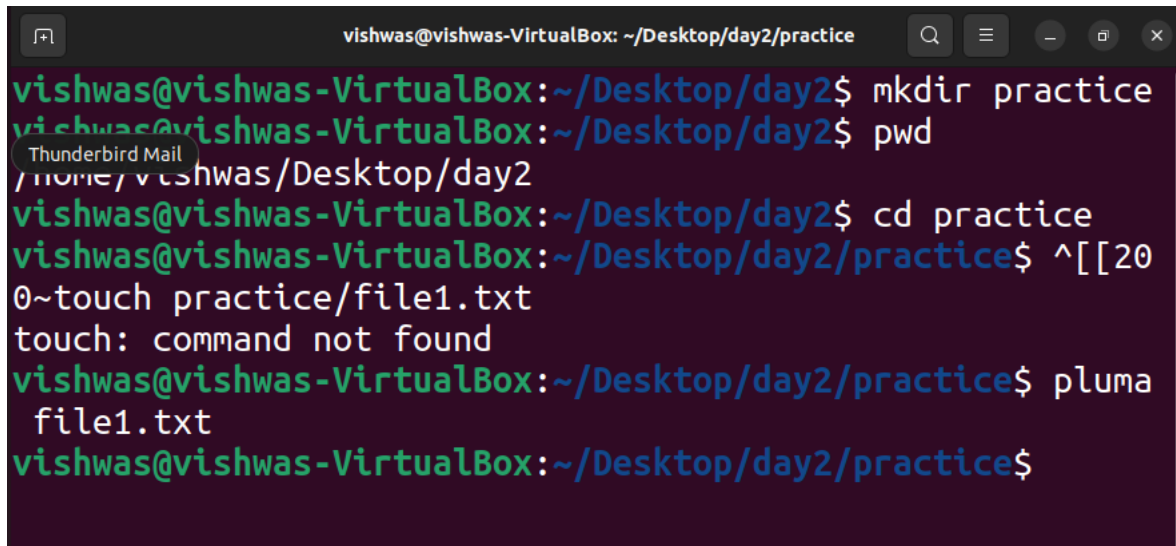
1. Complete the assignment and also upload the solutions in your Git repo
2. Take screenshot of the solution and paste it in word document
3. CO n

1. Create a new directory called "practice" in your home directory.

A terminal window titled 'vishwas@vishwas-VirtualBox: ~/Desktop/day2/practice' with standard window controls. The terminal shows a sequence of commands: 'mkdir practice', 'pwd' (outputting '/home/vishwas/Desktop/day2'), and 'cd practice'. The prompt changes from '~/' to '~/Desktop/day2/' and finally to '~/Desktop/day2/practice\$'.

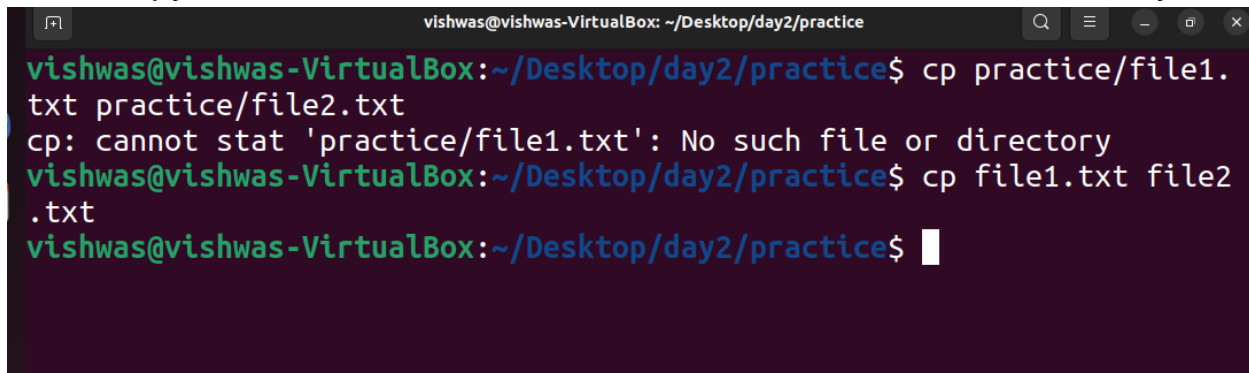
```
vishwas@vishwas-VirtualBox: ~/Desktop/day2/practice
vishwas@vishwas-VirtualBox: ~/Desktop/day2$ mkdir practice
vishwas@vishwas-VirtualBox: ~/Desktop/day2$ pwd
/home/vishwas/Desktop/day2
vishwas@vishwas-VirtualBox: ~/Desktop/day2$ cd practice
vishwas@vishwas-VirtualBox: ~/Desktop/day2/practice$
```

2. Inside the "practice" directory, create a new file called "file1.txt" and add some text to it.

A terminal window titled "vishwas@vishwas-VirtualBox: ~/Desktop/day2/practice". The user enters the following commands: `mkdir practice`, `pwd` (which outputs `/home/vishwas/Desktop/day2`), `cd practice`, `^[[200~touch practice/file1.txt` (which outputs `touch: command not found`), and `pluma file1.txt`. The prompt returns to `vishwas@vishwas-VirtualBox:~/Desktop/day2/practice$`.

```
vishwas@vishwas-VirtualBox: ~/Desktop/day2/practice
vishwas@vishwas-VirtualBox:~/Desktop/day2$ mkdir practice
vishwas@vishwas-VirtualBox:~/Desktop/day2$ pwd
/home/vishwas/Desktop/day2
vishwas@vishwas-VirtualBox:~/Desktop/day2$ cd practice
vishwas@vishwas-VirtualBox:~/Desktop/day2/practice$ ^[[200~touch practice/file1.txt
touch: command not found
vishwas@vishwas-VirtualBox:~/Desktop/day2/practice$ pluma
file1.txt
vishwas@vishwas-VirtualBox:~/Desktop/day2/practice$
```

3. Copy "file1.txt" to a new file called "file2.txt" in the same directory.

A terminal window titled "vishwas@vishwas-VirtualBox: ~/Desktop/day2/practice". The user enters the following commands: `cp practice/file1.txt practice/file2.txt` (which outputs `cp: cannot stat 'practice/file1.txt': No such file or directory`), `cp file1.txt file2.txt`, and the prompt returns to `vishwas@vishwas-VirtualBox:~/Desktop/day2/practice$`.

```
vishwas@vishwas-VirtualBox: ~/Desktop/day2/practice
vishwas@vishwas-VirtualBox:~/Desktop/day2/practice$ cp practice/file1.
txt practice/file2.txt
cp: cannot stat 'practice/file1.txt': No such file or directory
vishwas@vishwas-VirtualBox:~/Desktop/day2/practice$ cp file1.txt file2
.txt
vishwas@vishwas-VirtualBox:~/Desktop/day2/practice$
```

4. Move "file2.txt" to a new directory called "backup" that is located inside the "practice" directory.

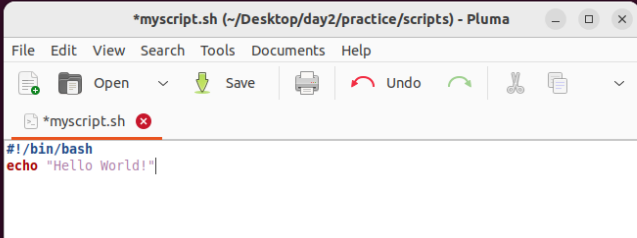
```
vishwas@vishwas-VirtualBox: ~/Desktop/day2/practice
vishwas@vishwas-VirtualBox:~/Desktop/day2/practice$ cp practice/file1.txt practice/
file2.txt
cp: cannot stat 'practice/file1.txt': No such file or directory
vishwas@vishwas-VirtualBox:~/Desktop/day2/practice$ mv file2.txt backup/
mv: cannot move 'file2.txt' to 'backup/': Not a directory
vishwas@vishwas-VirtualBox:~/Desktop/day2/practice$ mkdir backup
vishwas@vishwas-VirtualBox:~/Desktop/day2/practice$ mv file2.txt backup/
vishwas@vishwas-VirtualBox:~/Desktop/day2/practice$ s
```

5. Create a new directory called "scripts" inside the "practice" directory.

```
vishwas@vishwas-VirtualBox: ~/Desktop/day2/practice/scripts
vishwas@vishwas-VirtualBox:~/Desktop/day2/practice$ mkdir scripts
vishwas@vishwas-VirtualBox:~/Desktop/day2/practice$ cd scripts
vishwas@vishwas-VirtualBox:~/Desktop/day2/practice/scripts$
```

6. Create a new file called "myscript.sh" inside the "scripts" directory.

```
vishwas@vishwas-VirtualBox: ~/Desktop/day2/practice/scripts
vishwas@vishwas-VirtualBox:~/Desktop/day2/practice$ mkdir scripts
vishwas@vishwas-VirtualBox:~/Desktop/day2/practice$ cd scripts
vishwas@vishwas-VirtualBox:~/Desktop/day2/practice/scripts$ pluma myscript.sh
vishwas@vishwas-VirtualBox:~/Desktop/day2/practice/scripts$ pluma myscript.sh
```

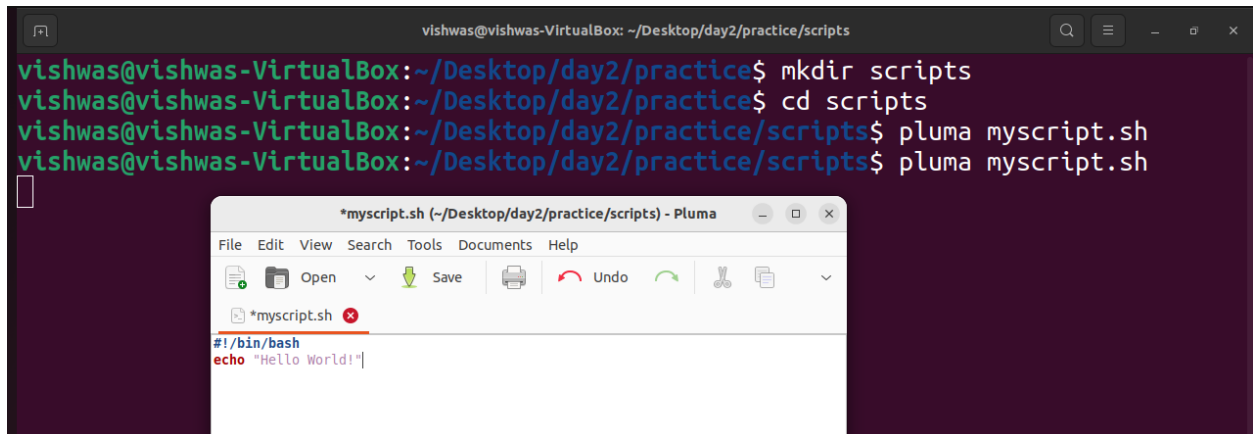


```
*myscript.sh (~/Desktop/day2/practice/scripts) - Pluma
File Edit View Search Tools Documents Help
[Icons: Open, Save, Print, Undo, Redo, Find, Copy, Paste]
*myscript.sh
#!/bin/bash
echo "Hello World!"
```

7. Add the following code to "myscript.sh":

```
#!/bin/bash
```

```
echo "Hello World!"
```



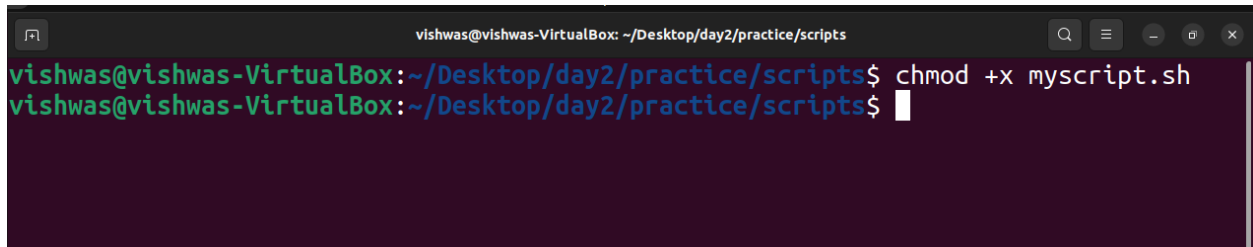
The screenshot shows a terminal window with the following commands and output:

```
vishwas@vishwas-VirtualBox: ~/Desktop/day2/practice/scripts
vishwas@vishwas-VirtualBox:~/Desktop/day2/practice$ mkdir scripts
vishwas@vishwas-VirtualBox:~/Desktop/day2/practice$ cd scripts
vishwas@vishwas-VirtualBox:~/Desktop/day2/practice/scripts$ pluma myscript.sh
vishwas@vishwas-VirtualBox:~/Desktop/day2/practice/scripts$ pluma myscript.sh
```

An inset window shows the Pluma text editor editing the file `*myscript.sh`. The content of the file is:

```
#!/bin/bash
echo "Hello World!"
```

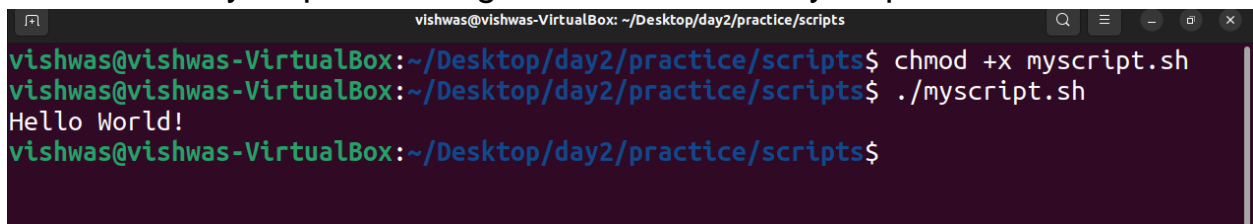
8. Make "myscript.sh" executable using the command "chmod +x myscript.sh".



The screenshot shows a terminal window with the following commands and output:

```
vishwas@vishwas-VirtualBox: ~/Desktop/day2/practice/scripts
vishwas@vishwas-VirtualBox:~/Desktop/day2/practice/scripts$ chmod +x myscript.sh
vishwas@vishwas-VirtualBox:~/Desktop/day2/practice/scripts$
```

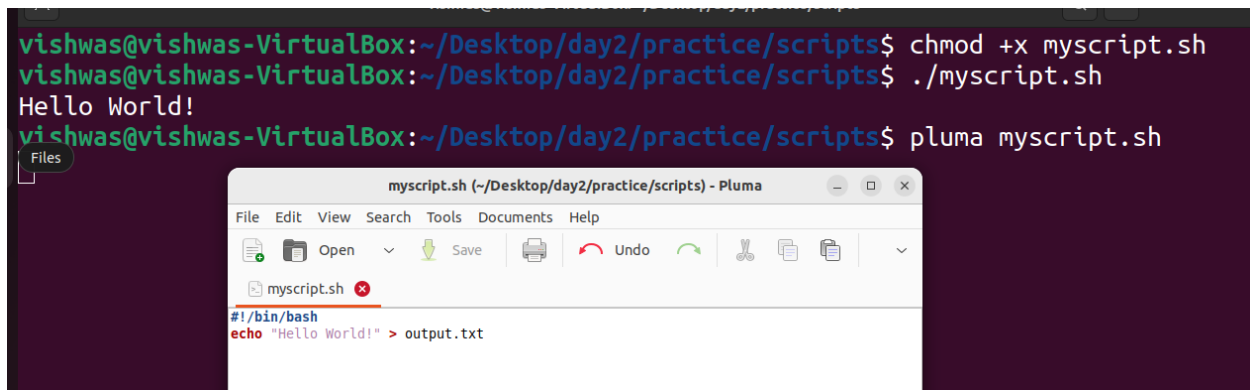
9. Run "myscript.sh" using the command "./myscript.sh".



The screenshot shows a terminal window with the following commands and output:

```
vishwas@vishwas-VirtualBox: ~/Desktop/day2/practice/scripts
vishwas@vishwas-VirtualBox:~/Desktop/day2/practice/scripts$ chmod +x myscript.sh
vishwas@vishwas-VirtualBox:~/Desktop/day2/practice/scripts$ ./myscript.sh
Hello World!
vishwas@vishwas-VirtualBox:~/Desktop/day2/practice/scripts$
```

10. Add a line to "myscript.sh" that creates a new file called "output.txt" in the same directory and writes the output of the "echo" command to it.



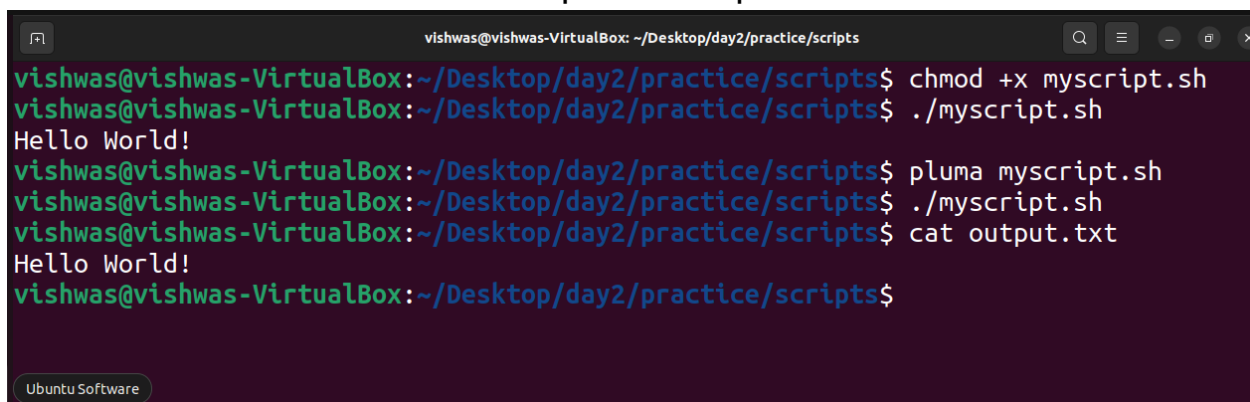
The image shows a terminal window and a Pluma text editor. The terminal window, titled "vishwas@vishwas-VirtualBox: ~/Desktop/day2/practice/scripts", shows the following commands and output:

```
vishwas@vishwas-VirtualBox:~/Desktop/day2/practice/scripts$ chmod +x myscript.sh
vishwas@vishwas-VirtualBox:~/Desktop/day2/practice/scripts$ ./myscript.sh
Hello World!
vishwas@vishwas-VirtualBox:~/Desktop/day2/practice/scripts$ pluma myscript.sh
```

The Pluma editor window, titled "myscript.sh (~/Desktop/day2/practice/scripts) - Pluma", shows the contents of the script file:

```
#!/bin/bash
echo "Hello World!" > output.txt
```

11. Run "myscript.sh" again and verify that "output.txt" has been created and contains the expected output.



The image shows a terminal window titled "vishwas@vishwas-VirtualBox: ~/Desktop/day2/practice/scripts" with the following commands and output:

```
vishwas@vishwas-VirtualBox:~/Desktop/day2/practice/scripts$ chmod +x myscript.sh
vishwas@vishwas-VirtualBox:~/Desktop/day2/practice/scripts$ ./myscript.sh
Hello World!
vishwas@vishwas-VirtualBox:~/Desktop/day2/practice/scripts$ pluma myscript.sh
vishwas@vishwas-VirtualBox:~/Desktop/day2/practice/scripts$ ./myscript.sh
vishwas@vishwas-VirtualBox:~/Desktop/day2/practice/scripts$ cat output.txt
Hello World!
vishwas@vishwas-VirtualBox:~/Desktop/day2/practice/scripts$
```

12. Create a new user account called "testuser".

```
vishwas@vishwas-VirtualBox: ~/Desktop/day2/practice/scripts
vishwas@vishwas-VirtualBox:~/Desktop/day2/practice/scripts$ sudo adduser testuser1
Adding user `testuser1' ...
Adding new group `testuser1' (1002) ...
Adding new user `testuser1' (1002) with group `testuser1' ...
Creating home directory `/home/testuser1' ...
Copying files from `/etc/skel' ...
New password:
BAD PASSWORD: The password is shorter than 8 characters
Retype new password:
passwd: password updated successfully
Changing the user information for testuser1
Enter the new value, or press ENTER for the default
    Full Name []: testuser1
    Room Number []:
    Work Phone []:
    Home Phone []:
    Other []:
Is the information correct? [Y/n] y
vishwas@vishwas-VirtualBox:~/Desktop/day2/practice/scripts$
```

13. Switch to the "test user" account using the command "su testuser".

```
Other []:
Is the information correct? [Y/n] y
vishwas@vishwas-VirtualBox:~/Desktop/day2/practice/scripts$ su testuser1
Password:
testuser1@vishwas-VirtualBox: /home/vishwas/Desktop/day2/practice/scripts$
```

14. Verify that you are now logged in as "testuser" using the command "whoami".

```
testuser1@vishwas-VirtualBox: /home/vishwas/Desktop/day2/practice/scripts
testuser1@vishwas-VirtualBox: /home/vishwas/Desktop/day2/practice/scripts$ whoami
testuser1
testuser1@vishwas-VirtualBox: /home/vishwas/Desktop/day2/practice/scripts$
```

15. Switch back to your original user account using the command "exit".

```
testuser1@vishwas-VirtualBox:/home/vishwas/Desktop/day2/practice/scripts$ whoami
testuser1
testuser1@vishwas-VirtualBox:/home/vishwas/Desktop/day2/practice/scripts$ exit
exit
vishwas@vishwas-VirtualBox:~/Desktop/day2/practice/scripts$
```