

W8 A1 TASK2

Created	@January 27, 2025 11:46 AM
	RoboDive

TASK 2

PART 1

PART 2

```
adithya-vishnu@adithya-vishnu-ASUS-TUF-Gantng-F15-FX507VI-FX507VI:-/Linuxtearning$ cp notes/todo.txt backup
adithya-vishnu@adithya-vishnu-ASUS-TUF-Gantng-F15-FX507VI-FX507VI:-/Linuxtearning$ mv projects/project_list.txt ptojects/active_projects.txt
mv: cannot move 'projects/project_list.txt' to 'ptojects/active_projects.txt': No such file or directory
adithya-vishnu@adithya-vishnu-ASUS-TUF-Gantng-F15-FX507VI-FX507VI-/Linuxtearning$ mv projects/project_list.txt projects/active_projects.txt
adithya-vishnu@adithya-vishnu-ASUS-TUF-Gantng-F15-FX507VI-FX507VI-/Linuxtearning$ mv projects/project_list.txt
adithya-vishnu@adithya-vishnu-ASUS-TUF-Gantng-F15-FX507VI-FX507VI-/Linuxtearning$ chom'>empty.txt
adithya-vishnu@adithya-vishnu-ASUS-TUF-Gantng-F15-FX507VI-FX507VII-/Linuxtearning$ rm empty.txt
adithya-vishnu@adithya-vishnu-ASUS-TUF-Gantng-F15-FX507VI-FX507VII-/Linuxtearning$ pwd
/home/adithya-vishnu/Linuxtearning
```

PART 3

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```
adthya-vishnukBatthya-vishnukBus-TUF-Ganing-F1S-FXSOTVI:-/LinuxLearning$ cat /home/adithya-vishnu/LinuxLearning/projects/active_projects.txt
Takneek robotics was the first project I worked on after coming to IIIK
The obstacle avoiding bot had its own share of issues tbh.
and pre-Takneek,RobotiveAssignments,Robothon and the offline projects keeps goin
adithya-vishnukBatthya-vishnuk-ASUS-TUF-Ganing-F1S-FXSOTVI-FXSOTVI:-/LinuxLearning$ cat /home/adithya-vishnu/LinuxLearning/notes/todo.txt
This is the first time I an trying out LINUX
Now I an realising it is pretty cool
And all though I miss the easiness of Windows, LINUX does have its benefits
adithya-vishnuBatthya-vishnuk-ASUS-TUF-Ganing-F1S-FXSOTVI-FXSOTVI:-/LinuxLearning$ cat /home/adithya-vishnu/LinuxLearning/backup.txt
cat: /home/adithya-vishnu/LinuxLearning/backup.txt: No such file or directory
adithya-vishnuBadithya-vishnuk-ASUS-TUF-Ganing-F1S-FXSOTVI-FXSOTVI:-/LinuxLearning$ cat /home/adithya-vishnu/LinuxLearning/system_log.txt
The First line for backup
The Third Line for backup
```

```
adithya-vishnu@adithya-vishnu-ASUS-TUF-Gaming-F15-FX507VI-FX507VI:-/LinuxLearning$ sort Takneek /home/adithya-vishnu/LinuxLearning/projects/active_projects.txt sort: cannot read: Takneek: No such file or directory adithya-vishnu@adithya-vishnu@adithya-vishnu-ASUS-TUF-Gaming-F15-FX507VI-FX507VI:-/LinuxLearning$ sort /home/adithya-vishnu/LinuxLearning/projects/active_projects.txt and pre-Takneek.Robothora and the offline projects keeps goin Takneek robotics was the first project I worked on after coming to IIIK

The obstacle avoiding bot had its own share of issues thh. adithya-vishnu@adithya-vishnu-ASUS-TUF-Gaming-F15-FX507VI-FX507VI:-/LinuxLearning$ grep -r /home/adithya-vishnu/LinuxLearning/notes/todo.txt adithya-vishnu@adithya-vishnu-ASUS-TUF-Gaming-F15-FX507VI-FX507VI:-/LinuxLearning$ sort -r /home/adithya-vishnu/LinuxLearning/notes/todo.txt ...
This is the first time I am trying out LINUX

Now I am realisting it is pretty cool
And all though I miss the easiness of Windows, LINUX does have its benefits adithya-vishnu@adithya-vishnu-ASUS-TUF-Gaming-F15-FX507VI-FX507VI:-/LinuxLearning$ sort /home/adithya-vishnu/LinuxLearning/projects/active_projects.txt and pre-Takneek.Robothora and the offline projects keeps goin Takneek robotics was the first project I worked on after coming to IIIK

The obstacle avoiding bot had its own share of issues thh. adithya-vishnu/Badithya-vishnu-ASUS-TUF-Gaming-F15-FX507VI-FX507VI:-/LinuxLearning$ sort /home/adithya-vishnu/LinuxLearning/system_log.txt

The First line for backup

The Third Line for backup
```

PART 4

```
adithya-vishnu@adithya-vishnu -ASUS-TUF-Gaming-F15-FX507VI-FX507VI:-/LinuxLearning$ ls -l
total 16
drwxrwxr-x 2 adithya-vishnu adithya-vishnu 4096 Jan 26 19:23 backup
drwxrwxr-x 2 adithya-vishnu adithya-vishnu 4096 Jan 26 19:12 notes
drwxrwxr-x 2 adithya-vishnu adithya-vishnu 4096 Jan 26 19:12 notes
drwxrwxr-x 2 adithya-vishnu adithya-vishnu 4096 Jan 26 19:14 system_log.txt
adithya-vishnu@adithya-vishnu adithya-vishnu 4096 Jan 26 19:14 system_log.txt
chnod: invalid node: "r=u"
Iry 'chnod --help' for nore infornation.
adithya-vishnu@adithya-vishnu-ASUS-TUF-Gaming-F15-FX507VI-FX507VI:-/LinuxLearning$ chnod u=r system_log.txt
adithya-vishnu@adithya-vishnu-ASUS-TUF-Gaming-F15-FX507VI-FX507VI:-/LinuxLearning$ chnod go-rnx system_log.txt
adithya-vishnu@adithya-vishnu-ASUS-TUF-Gaming-F15-FX507VI-FX507VI:-/LinuxLearning$ chnod go-rnx system_log.txt
adithya-vishnu@adithya-vishnu-ASUS-TUF-Gaming-F15-FX507VI-FX507VI:-/LinuxLearning$ chnod u=r system_log.txt
```

PART 5

```
adithya-vishnu@adithya-vishnu-ASUS-TUF-Gaming-F15-FX507VI-FX507VI:-/LinuxLearning$ whoami
adithya-vishnu
adithya-vishnu-ASUS-TUF-Gaming-F15-FX507VI-FX507VI:-/LinuxLearning$ uname
Linux
adithya-vishnu@adithya-vishnu-ASUS-TUF-Gaming-F15-FX507VI-FX507VI:-/LinuxLearning$ df
Filesystem 1K-blocks Used Available Usek Mounted on
tmpfs 3247564 2732 3244832 1k /run
/dev/nvmeen1p10 97220924 12653580 97660764 14k /
tmpfs 16237080 285380 15952428 2k /dev/shm
tmpfs 5120 12 5108 1k /run/lock
efivarfs 102 145 43 78k /sys/firmware/efi/efivars
/dev/nvmeen1p19 965872 119704 779764 14k /boot
/dev/nvmeen1p19 965872 119704 779764 14k /boot
/dev/nvmeen1p1 262144 38232 223912 18k /boot/efit
tmpfs 3247560 156 3247404 1k /run/user/1000
adithya-vishnu@adithya-vishnu-ASUS-TUF-Gaming-F15-FX507VI-FX507VI:-/LinuxLearning$ ps
PID TTY TIME CMD
75190 pts/3 00:00:00 ps
```

Text to go into the readme.md file

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PART-1

In part-1 we use the mkdir function to create a parent directory "LinuxLearning" and after using cd to change the directories to 'LinuxLearning' we use mkdir again to create three new sub directories.

next we use the command of the format echo "text to be entered" > filename. to create three new files. and similarly after using the first line to create the files we use the following variation to append two more lines to each file. echo "text to be entered" >> filename

and since in the question its specified that these files should be inside the respective sub directories we use the mv function to do this.

PART-2

For this we use the command cp in the format

cp [filename] [directory location]

mv is also used to move the file. and an important thing to keep in mind is that '.' can be used to specify the current directory which is open.

The rm command is used to remove any file required and rmdir is used to delete 'empty' directories and rm -r is a powerful tool used to delete any file or directory irrespective of whether it is empty or not.

And pwd is used to find the location of the currently open directory or location

PART-3

The cat command which stands for concatenate is used here, which displays the contents of the files. The cat command is used in the format cat [filename/location]. This is done for the three files.f the file size is too large we can also use the less pager option to view it page by page.

The wc command is used to output the word or line count of a file. the wc -l can be used to give the number of lines in the file. This is done for the three files.

grep command is used to find a specific word or character in the file. format is grep [object to be found][filename] and the lines with the word are returned with highlighted word.

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sort command is used to sort the text file. The sorting can also be done in reverse using the sort -r command. Sorting is mainly used in placed where the uniq function is to be used where it is required that the repeated lines be adjacent to each other so this can be used there too.

PART-4

The Is -I can be used in a directory to give the file permissions of each content in the directory or we could use it as Is -I [filename] which would give the permissions of the specified file name only. in the out put if it begins with '-' it means it is just a normal file, -rw means read and write allowed, user-owner, group-whatever the group is.

chmod function is used to change the rights of the file. this can be done in two methods using

chmod 400 [filename]

or

chmod u=r [filename]

chmod go-rwx [filename]

chown: command is used to change the ownership of the file or directory

format: chown [new owner] [filename]

PART-5

whoami - outputs the current users name

uname - outputs the unix system's name here LINUX

df - prints the approximate disk space

ps - lists the current running processes.

Commands used

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mkdir

cd

echo

ср

mν

rm

pwd

cat

wc

grep

sort

ls -l

chmod

chown

whoami

uname

df

ps

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