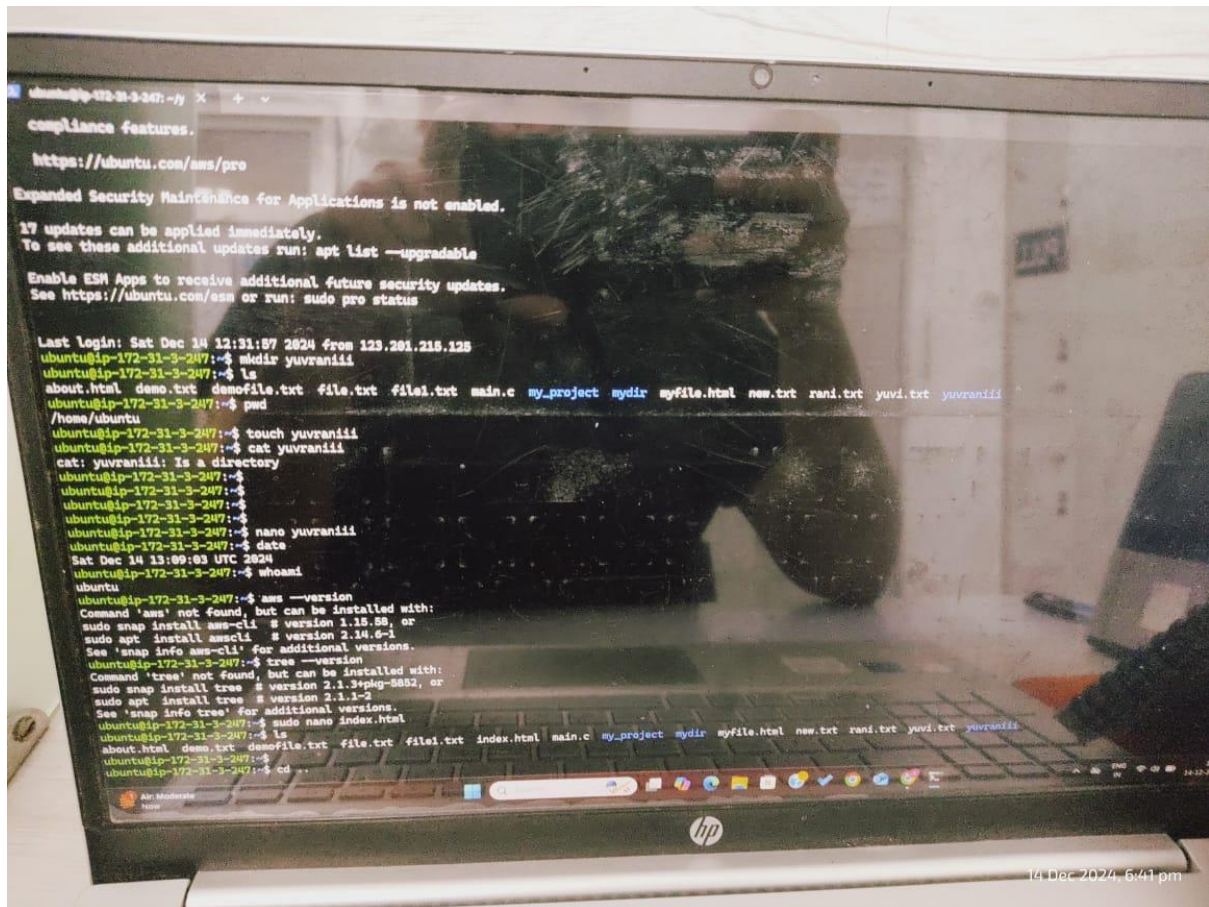


1. Prepare the documentation of all linux command covered in class.

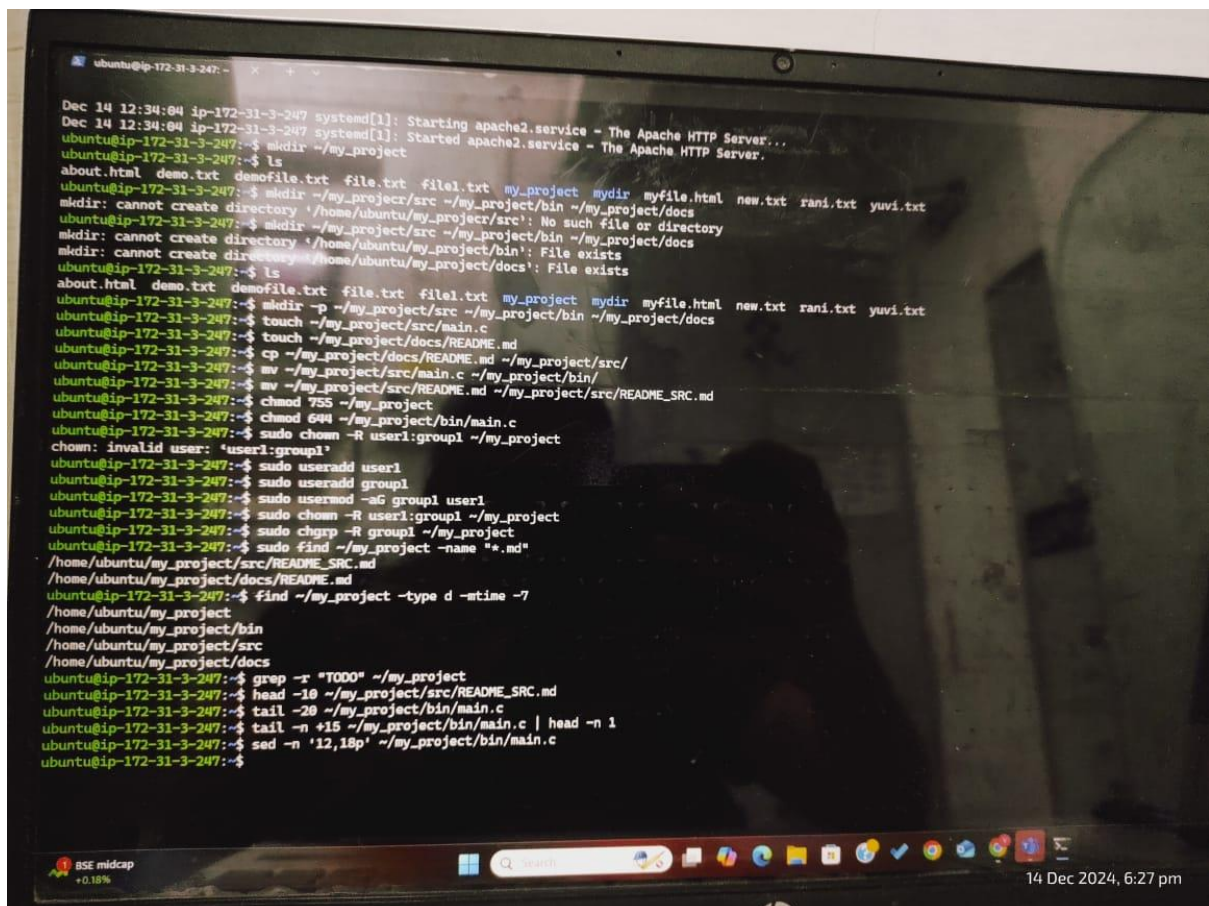


```
ubuntu@ip-172-31-3-247:~$  
compliance features.  
https://ubuntu.com/ams/pro  
Expanded Security Maintenance for Applications is not enabled.  
17 updates can be applied immediately.  
To see these additional updates run: apt list --upgradable  
Enable ESM Apps to receive additional future security updates.  
See https://ubuntu.com/esm or run: sudo pro status  
  
Last login: Sat Dec 14 12:31:57 2024 from 123.201.215.125  
ubuntu@ip-172-31-3-247:~$ mkdir yuvraniii  
ubuntu@ip-172-31-3-247:~$ ls  
about.html demo.txt demofile.txt file.txt file1.txt main.c my_project mydir myfile.html new.txt rani.txt yuvi.txt yuvraniii  
ubuntu@ip-172-31-3-247:~$ pwd  
/home/ubuntu  
ubuntu@ip-172-31-3-247:~$ touch yuvraniii  
ubuntu@ip-172-31-3-247:~$ cat yuvraniii  
cat: yuvraniii: Is a directory  
ubuntu@ip-172-31-3-247:~$  
ubuntu@ip-172-31-3-247:~$ nano yuvraniii  
ubuntu@ip-172-31-3-247:~$ date  
Sat Dec 14 13:09:03 UTC 2024  
ubuntu@ip-172-31-3-247:~$ whoami  
ubuntu  
ubuntu@ip-172-31-3-247:~$ aws --version  
Command 'aws' not found, but can be installed with:  
sudo snap install aws-cli # version 1.15.08, or  
sudo apt install awscli # version 2.14.6-1  
See 'snap info aws-cli' for additional versions.  
ubuntu@ip-172-31-3-247:~$ tree --version  
Command 'tree' not found, but can be installed with:  
sudo snap install tree # version 2.1.3+pkg-5852, or  
sudo apt install tree # version 2.1.1-2  
See 'snap info tree' for additional versions.  
ubuntu@ip-172-31-3-247:~$ sudo nano index.html  
ubuntu@ip-172-31-3-247:~$ ls  
about.html demo.txt demofile.txt file.txt file1.txt index.html main.c my_project mydir myfile.html new.txt rani.txt yuvi.txt yuvraniii  
ubuntu@ip-172-31-3-247:~$ cd ..  
ubuntu@ip-172-31-3-247:~$
```

2. Perform following practical tasks and include the screen short of task in documentations.

- Create a directory named my_project in your home directory.
- Inside my project, create three subdirectories: src, bin, and docs.
- In the src directory, create a file named main.c.
- Create another file named README.md in the docs directory.
- Copy the README.md file from docs to the src directory.
- Move the main.c file from src to bin.
- Rename the README.md file in the src directory to README SRC.md.
- Change the permissions of the my project directory to 755.
- Change the permissions of the bin/main.c file to 644.
- Change the ownership of the my project directory and its contents to a user named user1 and a group named group1.

- k. Find all files in the my project directory and its subdirectories that have the .md extension.
- l. Find all directories in the my project directory that were modified in the last 7 days.
- m. Search for the word TODO in all files in the my project directory and its subdirectories.
- n. Display the first 10 lines of the README_SRC.md file.
- o. Display the last 20 lines of the main.c file in the bin directory.
- p. Display the last 15th lines of the main.c file in the bin directory.
- q. Display the 12th to 18th lines of the main.c file in the bin directory.



```
Dec 14 12:34:04 ip-172-31-3-247 systemd[1]: Starting apache2.service - The Apache HTTP Server...
Dec 14 12:34:04 ip-172-31-3-247 systemd[1]: Started apache2.service - The Apache HTTP Server.
ubuntu@ip-172-31-3-247:~$ mkdir ~/my_project
ubuntu@ip-172-31-3-247:~$ ls
about.html demo.txt demoFile.txt file.txt file1.txt my_project mydir myfile.html new.txt rani.txt yuvi.txt
ubuntu@ip-172-31-3-247:~$ mkdir ~/my_project/src ~/my_project/bin ~/my_project/docs
mkdir: cannot create directory '/home/ubuntu/my_project/src': No such file or directory
ubuntu@ip-172-31-3-247:~$ mkdir ~/my_project/src ~/my_project/bin ~/my_project/docs
mkdir: cannot create directory '/home/ubuntu/my_project/bin': File exists
mkdir: cannot create directory '/home/ubuntu/my_project/docs': File exists
ubuntu@ip-172-31-3-247:~$ ls
about.html demo.txt demoFile.txt file.txt file1.txt my_project mydir myfile.html new.txt rani.txt yuvi.txt
ubuntu@ip-172-31-3-247:~$ mkdir -p ~/my_project/src ~/my_project/bin ~/my_project/docs
ubuntu@ip-172-31-3-247:~$ touch ~/my_project/src/main.c
ubuntu@ip-172-31-3-247:~$ touch ~/my_project/docs/README.md
ubuntu@ip-172-31-3-247:~$ cp ~/my_project/docs/README.md ~/my_project/src/
ubuntu@ip-172-31-3-247:~$ mv ~/my_project/src/main.c ~/my_project/bin/
ubuntu@ip-172-31-3-247:~$ mv ~/my_project/src/README.md ~/my_project/src/README_SRC.md
ubuntu@ip-172-31-3-247:~$ chmod 755 ~/my_project
ubuntu@ip-172-31-3-247:~$ chmod 644 ~/my_project/bin/main.c
ubuntu@ip-172-31-3-247:~$ sudo chown -R user1:group1 ~/my_project
chown: invalid user: 'user1:group1'
ubuntu@ip-172-31-3-247:~$ sudo useradd user1
ubuntu@ip-172-31-3-247:~$ sudo useradd group1
ubuntu@ip-172-31-3-247:~$ sudo usermod -sG group1 user1
ubuntu@ip-172-31-3-247:~$ sudo chown -R user1:group1 ~/my_project
ubuntu@ip-172-31-3-247:~$ sudo chgrp -R group1 ~/my_project
ubuntu@ip-172-31-3-247:~$ sudo find ~/my_project -name "*.md"
/home/ubuntu/my_project/src/README_SRC.md
/home/ubuntu/my_project/docs/README.md
ubuntu@ip-172-31-3-247:~$ find ~/my_project -type d -mtime -7
/home/ubuntu/my_project
/home/ubuntu/my_project/bin
/home/ubuntu/my_project/src
/home/ubuntu/my_project/docs
ubuntu@ip-172-31-3-247:~$ grep -r "TODO" ~/my_project
ubuntu@ip-172-31-3-247:~$ head -10 ~/my_project/src/README_SRC.md
ubuntu@ip-172-31-3-247:~$ tail -20 ~/my_project/bin/main.c
ubuntu@ip-172-31-3-247:~$ tail -n +15 ~/my_project/bin/main.c | head -n 1
ubuntu@ip-172-31-3-247:~$ sed -n '12,18p' ~/my_project/bin/main.c
ubuntu@ip-172-31-3-247:~$
```