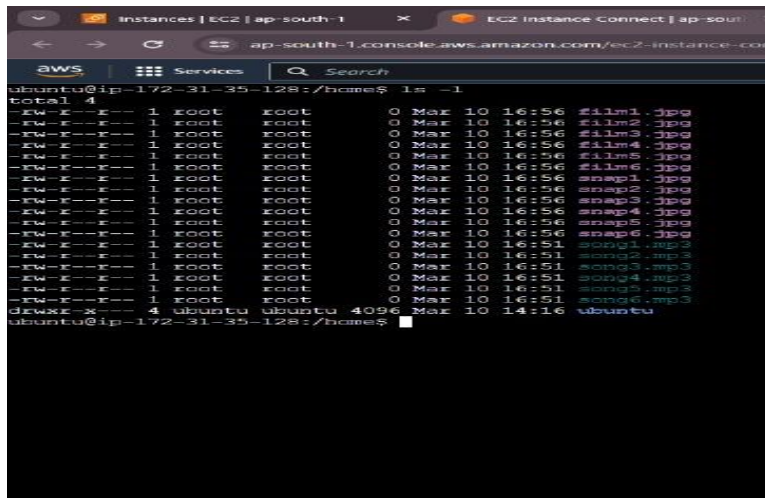


1. In your home directory, create sets of empty practice files

- Create 6 files with names of the form songsX.mp3.
- Create 6 files with names of the form snapX.jpg.
- Create 6 files with names of the form filmX.avi.

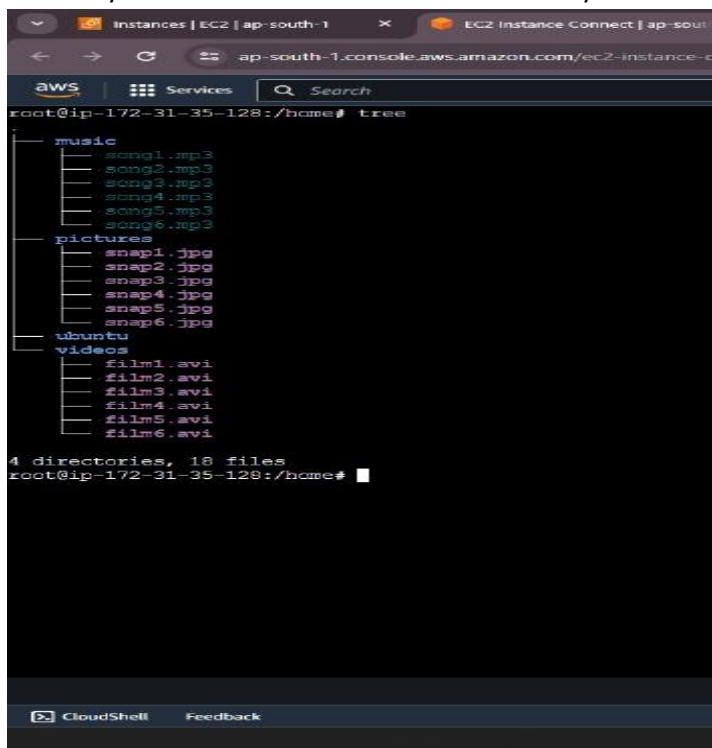
In each set, replace X with the numbers 1 through 6.



```
ubuntu@ip-172-31-35-128:/home$ ls -l
total 4
-rw-r--r-- 1 root root 0 Mar 10 16:56 film1.jpg
-rw-r--r-- 1 root root 0 Mar 10 16:56 film2.jpg
-rw-r--r-- 1 root root 0 Mar 10 16:56 film3.jpg
-rw-r--r-- 1 root root 0 Mar 10 16:56 film4.jpg
-rw-r--r-- 1 root root 0 Mar 10 16:56 film5.jpg
-rw-r--r-- 1 root root 0 Mar 10 16:56 film6.jpg
-rw-r--r-- 1 root root 0 Mar 10 16:56 snap1.jpg
-rw-r--r-- 1 root root 0 Mar 10 16:56 snap2.jpg
-rw-r--r-- 1 root root 0 Mar 10 16:56 snap3.jpg
-rw-r--r-- 1 root root 0 Mar 10 16:56 snap4.jpg
-rw-r--r-- 1 root root 0 Mar 10 16:56 snap5.jpg
-rw-r--r-- 1 root root 0 Mar 10 16:56 snap6.jpg
-rw-r--r-- 1 root root 0 Mar 10 16:51 song1.mp3
-rw-r--r-- 1 root root 0 Mar 10 16:51 song2.mp3
-rw-r--r-- 1 root root 0 Mar 10 16:51 song3.mp3
-rw-r--r-- 1 root root 0 Mar 10 16:51 song4.mp3
-rw-r--r-- 1 root root 0 Mar 10 16:51 song5.mp3
-rw-r--r-- 1 root root 0 Mar 10 16:51 song6.mp3
dwxr-x--x 4 ubuntu ubuntu 4096 Mar 10 14:16 ubuntu
ubuntu@ip-172-31-35-128:/home$
```

2. From your home directory,

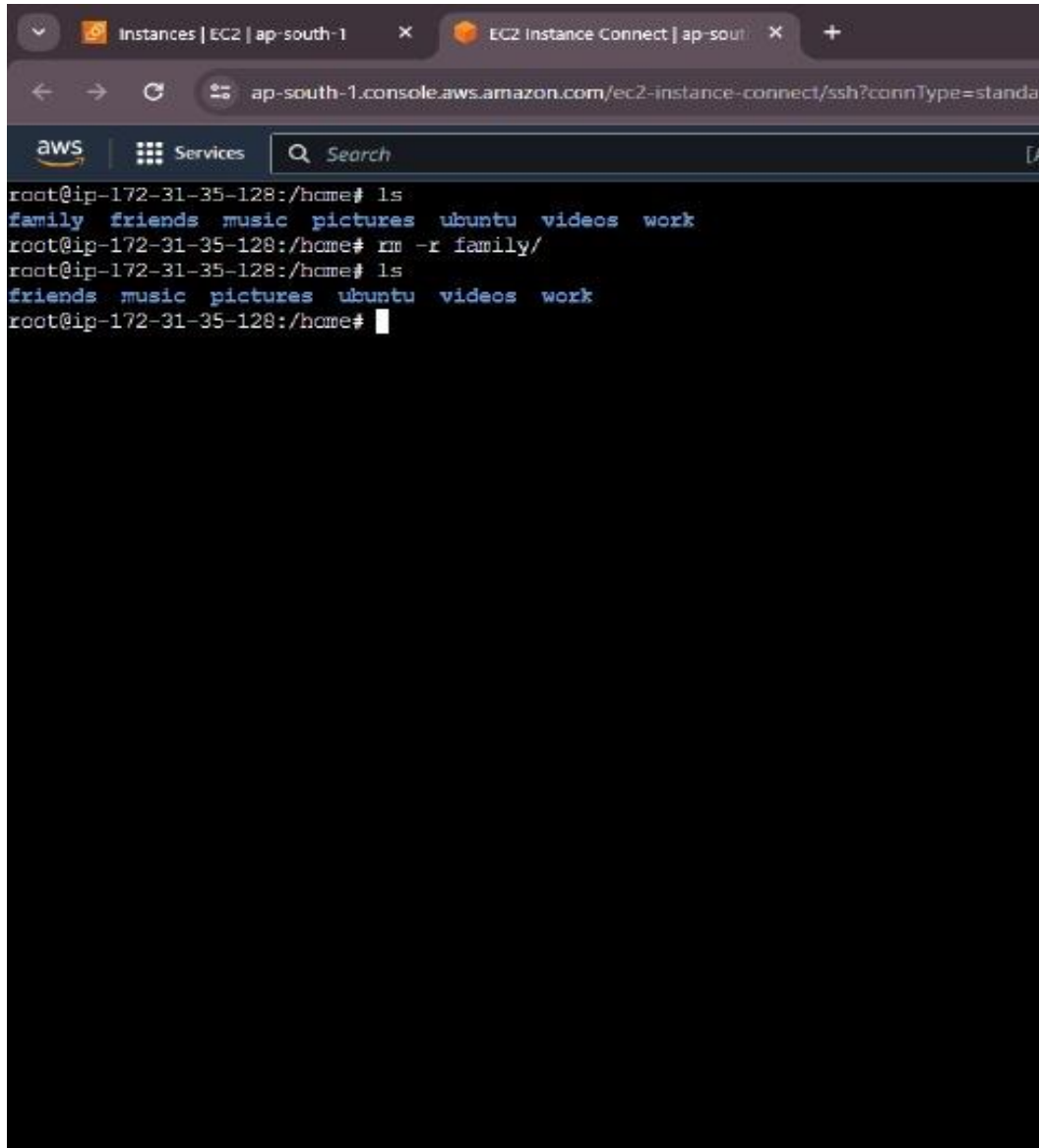
- Move songs file into your Music subdirectory.
- Move snap file into your Pictures subdirectory.
- Move your movie files into Videos subdirectory



```
root@ip-172-31-35-128:/home# tree
.
├── music
│   ├── song1.mp3
│   ├── song2.mp3
│   ├── song3.mp3
│   ├── song4.mp3
│   ├── song5.mp3
│   └── song6.mp3
├── pictures
│   ├── snap1.jpg
│   ├── snap2.jpg
│   ├── snap3.jpg
│   ├── snap4.jpg
│   ├── snap5.jpg
│   └── snap6.jpg
├── ubuntu
└── videos
    ├── film1.avi
    ├── film2.avi
    ├── film3.avi
    ├── film4.avi
    ├── film5.avi
    └── film6.avi

4 directories, 18 files
root@ip-172-31-35-128:/home#
```

3. Create 3 subdirectories for organizing your files named friends,family,work



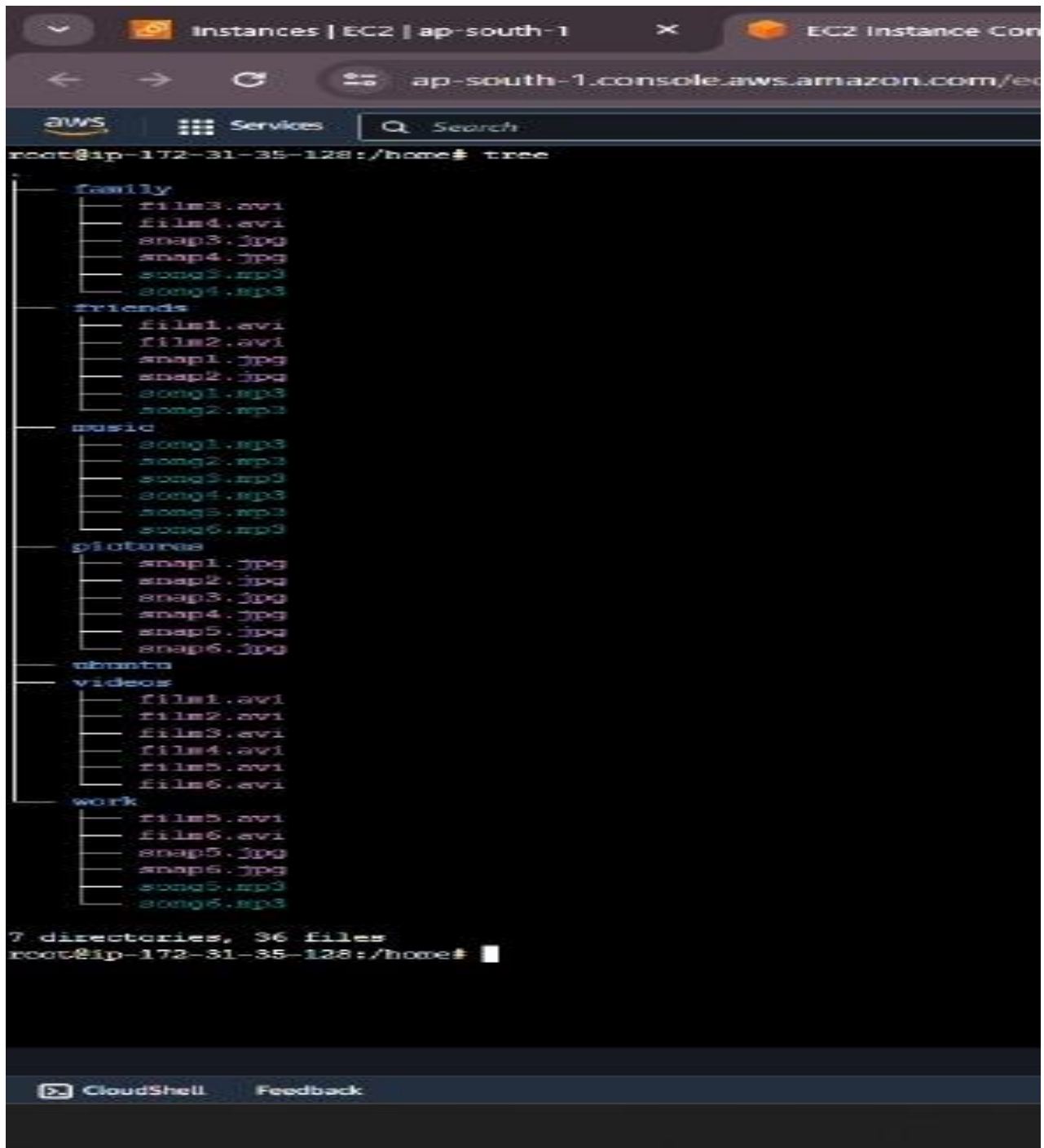
The screenshot shows a web browser window with two tabs: 'Instances | EC2 | ap-south-1' and 'EC2 Instance Connect | ap-south-1'. The address bar shows the URL 'ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standa'. The browser window displays the AWS console interface with the 'aws' logo, 'Services' menu, and a search bar. Below the console header is a terminal window with the following commands and output:

```
root@ip-172-31-35-128:/home# ls
family friends music pictures ubuntu videos work
root@ip-172-31-35-128:/home# rm -r family/
root@ip-172-31-35-128:/home# ls
friends music pictures ubuntu videos work
root@ip-172-31-35-128:/home#
```

4. Copy files (all types ) containing numbers 1 and 2 to the friends folder.

Copy files (all types) containing numbers 3 and 4 to the family folder.

Copy files (all types) containing numbers 5 and 6 to the work folder.

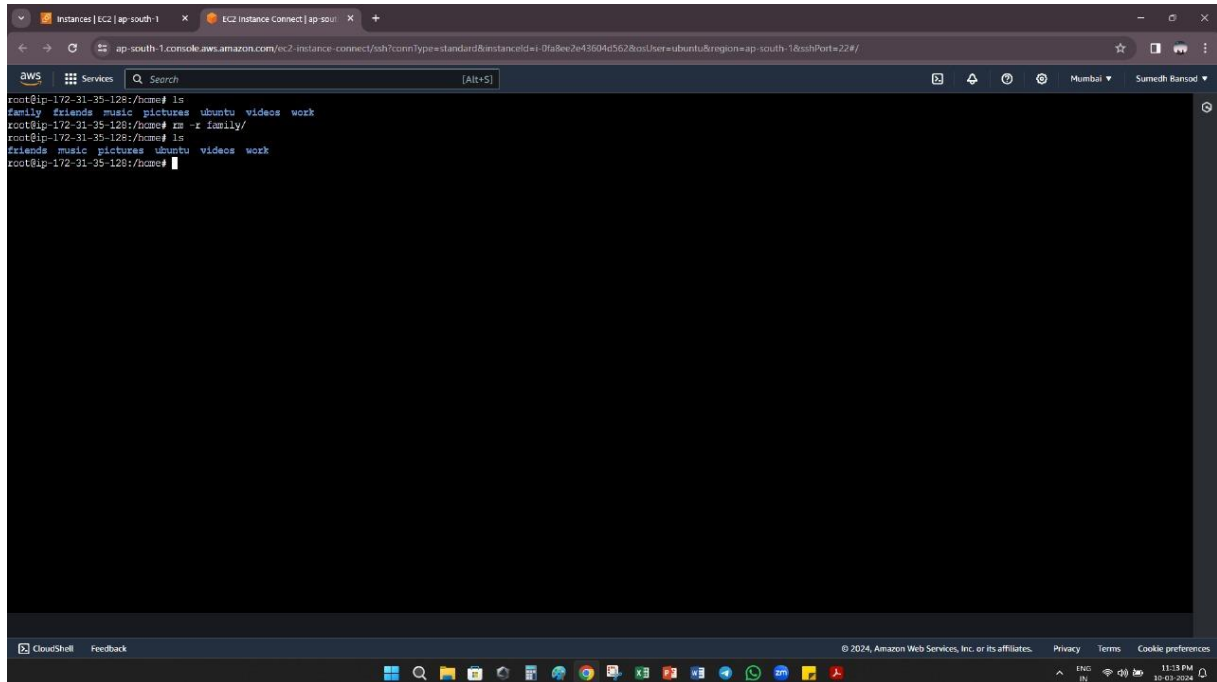


The screenshot shows the AWS CloudShell interface with a terminal window. The terminal prompt is `root@ip-172-31-35-128:/home#`. The user has entered the `tree` command, which displays a directory tree structure. The tree shows seven directories: `family`, `friends`, `music`, `pictures`, `ubuntu`, `videos`, and `work`. Each directory contains a list of files with their extensions. The `family` directory contains `film3.avi`, `film4.avi`, `snap3.jpg`, `snap4.jpg`, `song3.mp3`, and `song4.mp3`. The `friends` directory contains `film1.avi`, `film2.avi`, `snap1.jpg`, `snap2.jpg`, `song1.mp3`, and `song2.mp3`. The `music` directory contains `song1.mp3`, `song2.mp3`, `song3.mp3`, `song4.mp3`, `song5.mp3`, and `song6.mp3`. The `pictures` directory contains `snap1.jpg`, `snap2.jpg`, `snap3.jpg`, `snap4.jpg`, `snap5.jpg`, and `snap6.jpg`. The `ubuntu` directory is empty. The `videos` directory contains `film1.avi`, `film2.avi`, `film3.avi`, `film4.avi`, `film5.avi`, and `film6.avi`. The `work` directory contains `film5.avi`, `film6.avi`, `snap5.jpg`, `snap6.jpg`, `song5.mp3`, and `song6.mp3`. At the bottom of the terminal output, it says `7 directories, 36 files`. The terminal prompt is `root@ip-172-31-35-128:/home#`. The CloudShell interface includes a top bar with the AWS logo, a search bar, and a bottom bar with the CloudShell logo and a feedback link.

```
root@ip-172-31-35-128:/home# tree
.
├── family
│   ├── film3.avi
│   ├── film4.avi
│   ├── snap3.jpg
│   ├── snap4.jpg
│   ├── song3.mp3
│   └── song4.mp3
├── friends
│   ├── film1.avi
│   ├── film2.avi
│   ├── snap1.jpg
│   ├── snap2.jpg
│   ├── song1.mp3
│   └── song2.mp3
├── music
│   ├── song1.mp3
│   ├── song2.mp3
│   ├── song3.mp3
│   ├── song4.mp3
│   ├── song5.mp3
│   └── song6.mp3
├── pictures
│   ├── snap1.jpg
│   ├── snap2.jpg
│   ├── snap3.jpg
│   ├── snap4.jpg
│   ├── snap5.jpg
│   └── snap6.jpg
├── ubuntu
├── videos
│   ├── film1.avi
│   ├── film2.avi
│   ├── film3.avi
│   ├── film4.avi
│   ├── film5.avi
│   └── film6.avi
└── work
    ├── film5.avi
    ├── film6.avi
    ├── snap5.jpg
    ├── snap6.jpg
    ├── song5.mp3
    └── song6.mp3

7 directories, 36 files
root@ip-172-31-35-128:/home#
```

6. Delete all files in family subdirectory.

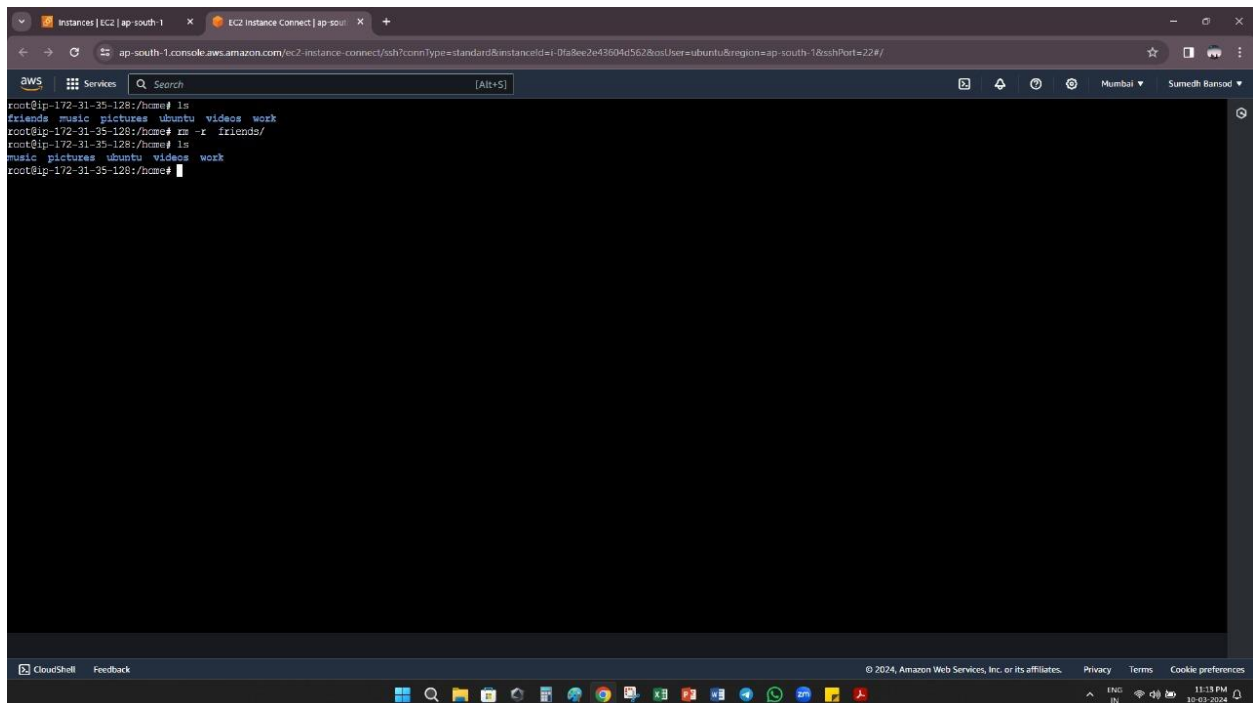


The screenshot shows the AWS CloudShell interface with a terminal window. The terminal output is as follows:

```
root@ip-172-31-35-128:/home# ls
family friends music pictures ubuntu videos work
root@ip-172-31-35-128:/home# rm -r family/
root@ip-172-31-35-128:/home# ls
friends music pictures ubuntu videos work
root@ip-172-31-35-128:/home#
```

The terminal shows the user listing the contents of the /home directory, which includes a 'family' subdirectory. They then execute the command 'rm -r family/' to delete it. After the command, the 'family' directory is no longer listed in the directory contents.

7. Delete friends subdirectory

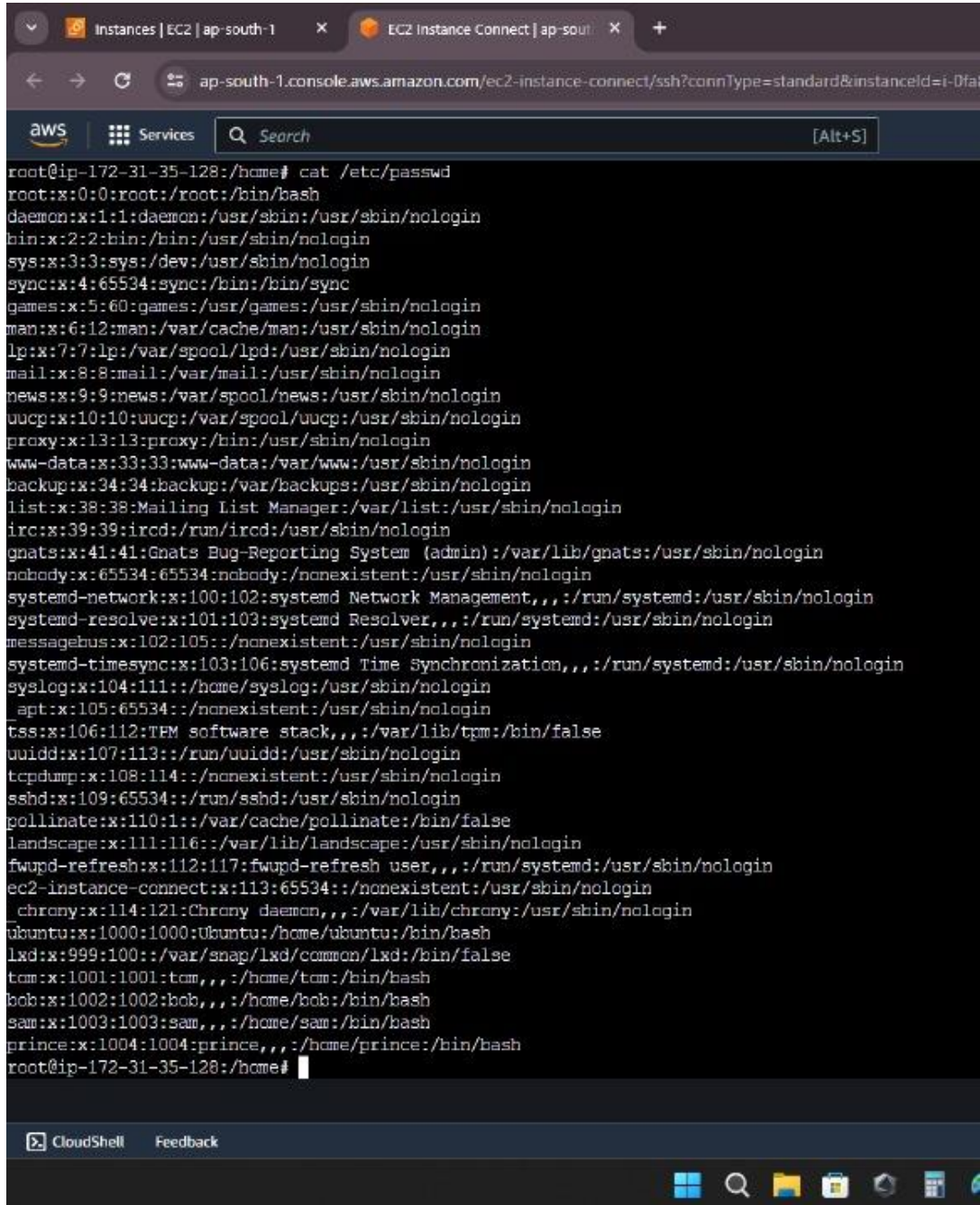


The screenshot shows the AWS CloudShell interface with a terminal window. The terminal output is as follows:

```
root@ip-172-31-35-128:/home# ls
friends music pictures ubuntu videos work
root@ip-172-31-35-128:/home# rm -r friends/
root@ip-172-31-35-128:/home# ls
music pictures ubuntu videos work
root@ip-172-31-35-128:/home#
```

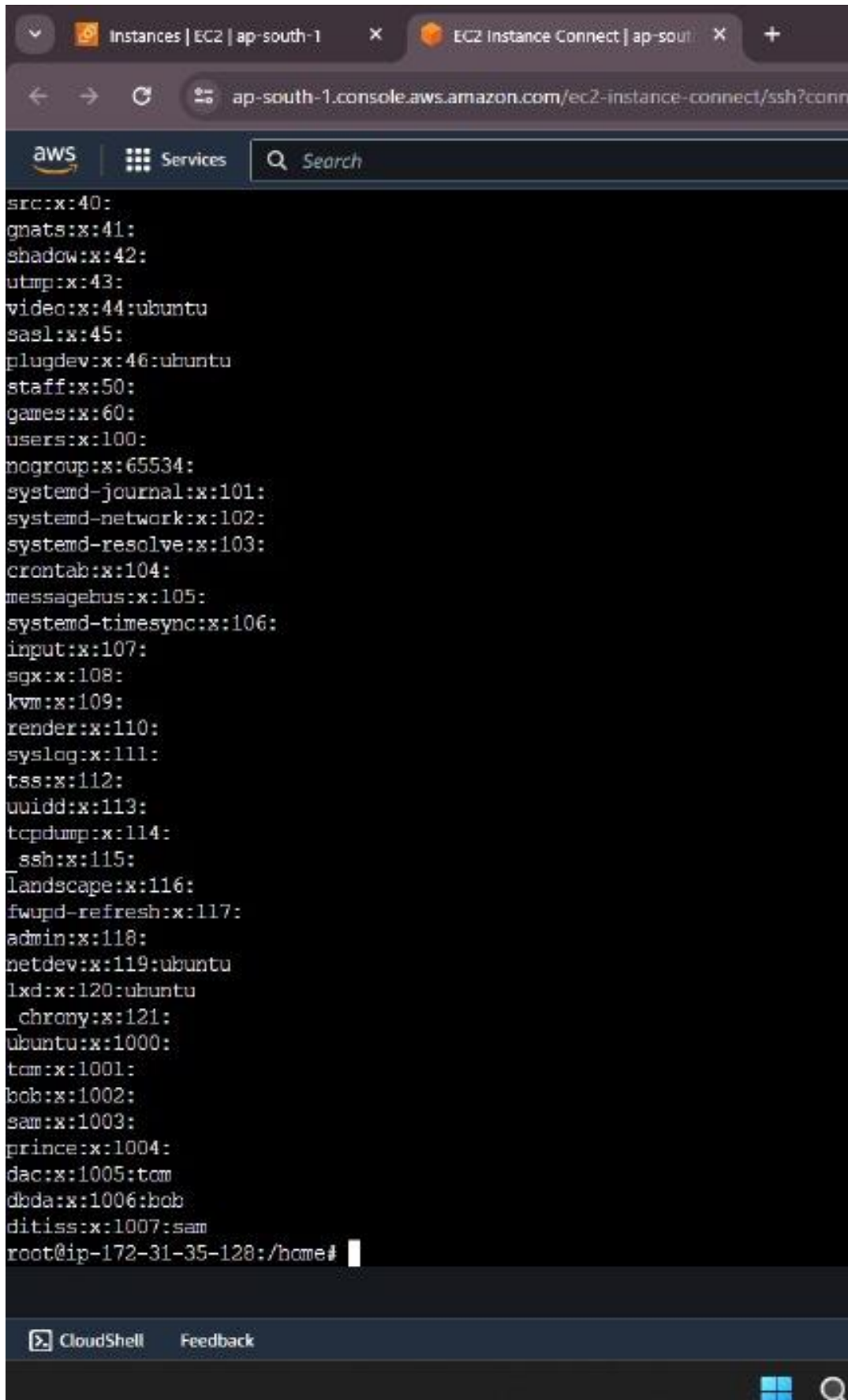
The terminal shows the user listing the contents of the /home directory, which includes a 'friends' subdirectory. They then execute the command 'rm -r friends/' to delete it. After the command, the 'friends' directory is no longer listed in the directory contents.

## 8. Create user tom , bob , sam , prince



```
root@ip-172-31-35-128:/home# cat /etc/passwd
root:x:0:0: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:/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
gnats:x:41:41:Gnats Bug-Reporting System (admin):/var/lib/gnats:/usr/sbin/nologin
nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin
systemd-network:x:100:102:systemd Network Management,,,:/run/systemd:/usr/sbin/nologin
systemd-resolve:x:101:103:systemd Resolver,,,:/run/systemd:/usr/sbin/nologin
messagebus:x:102:105:/:nonexistent:/usr/sbin/nologin
systemd-timesync:x:103:106:systemd Time Synchronization,,,:/run/systemd:/usr/sbin/nologin
syslog:x:104:111:/:home/syslog:/usr/sbin/nologin
_apt:x:105:65534:/:nonexistent:/usr/sbin/nologin
tss:x:106:112:TEM software stack,,,:/var/lib/tem:/bin/false
uuidd:x:107:113:/:run/uuidd:/usr/sbin/nologin
tcpdump:x:108:114:/:nonexistent:/usr/sbin/nologin
sshd:x:109:65534:/:run/sshd:/usr/sbin/nologin
pollinate:x:110:1:/:var/cache/pollinate:/bin/false
landscape:x:111:116:/:var/lib/landscape:/usr/sbin/nologin
fwupd-refresh:x:112:117:fwupd-refresh user,,,:/run/systemd:/usr/sbin/nologin
ec2-instance-connect:x:113:65534:/:nonexistent:/usr/sbin/nologin
_chrony:x:114:121:Chrony daemon,,,:/var/lib/chrony:/usr/sbin/nologin
ubuntu:x:1000:1000:Ubuntu:/home/ubuntu:/bin/bash
lxd:x:999:100:/:var/snap/lxd/common/lxd:/bin/false
tom:x:1001:1001:tom,,,:/home/tom:/bin/bash
bob:x:1002:1002:bob,,,:/home/bob:/bin/bash
sam:x:1003:1003:sam,,,:/home/sam:/bin/bash
prince:x:1004:1004:prince,,,:/home/prince:/bin/bash
root@ip-172-31-35-128:/home#
```

9. Create Group dac , dbda ,ditiss



The screenshot shows the AWS CloudShell interface. At the top, there are two browser tabs: 'Instances | EC2 | ap-south-1' and 'EC2 Instance Connect | ap-south-1'. The address bar shows the URL 'ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?conn...'. Below the browser tabs is the AWS console header with the 'aws' logo, a 'Services' menu, and a search bar. The main area is a terminal window with a black background and white text. It displays a list of system and user accounts in the format 'username:x:uid:'. The list includes various system users like 'src', 'gnats', 'shadow', 'utmp', 'video', 'sasl', 'plugdev', 'staff', 'games', 'users', 'nogroup', 'systemd-journal', 'systemd-network', 'systemd-resolve', 'crontab', 'messagebus', 'systemd-timesync', 'input', 'sgx', 'kvm', 'render', 'syslog', 'tss', 'uucidd', 'tcpdump', '\_ssh', 'landscape', 'fwupd-refresh', 'admin', 'netdev', 'lxd', '\_chrony', 'ubuntu', 'tom', 'bob', 'sam', 'prince', 'dac', 'dbda', and 'ditiss'. The 'ditiss' entry is highlighted in blue. At the bottom of the terminal, the prompt 'root@ip-172-31-35-128:/home#' is visible. The bottom of the screenshot shows the 'CloudShell' logo and a 'Feedback' link.

```
src:x:40:
gnats:x:41:
shadow:x:42:
utmp:x:43:
video:x:44:ubuntu
sasl:x:45:
plugdev:x:46:ubuntu
staff:x:50:
games:x:60:
users:x:100:
nogroup:x:65534:
systemd-journal:x:101:
systemd-network:x:102:
systemd-resolve:x:103:
crontab:x:104:
messagebus:x:105:
systemd-timesync:x:106:
input:x:107:
sgx:x:108:
kvm:x:109:
render:x:110:
syslog:x:111:
tss:x:112:
uucidd:x:113:
tcpdump:x:114:
_ssh:x:115:
landscape:x:116:
fwupd-refresh:x:117:
admin:x:118:
netdev:x:119:ubuntu
lxd:x:120:ubuntu
_chrony:x:121:
ubuntu:x:1000:
tom:x:1001:
bob:x:1002:
sam:x:1003:
prince:x:1004:
dac:x:1005:tom
dbda:x:1006:bob
ditiss:x:1007:sam
root@ip-172-31-35-128:/home#
```



10. add user

Tom in dac

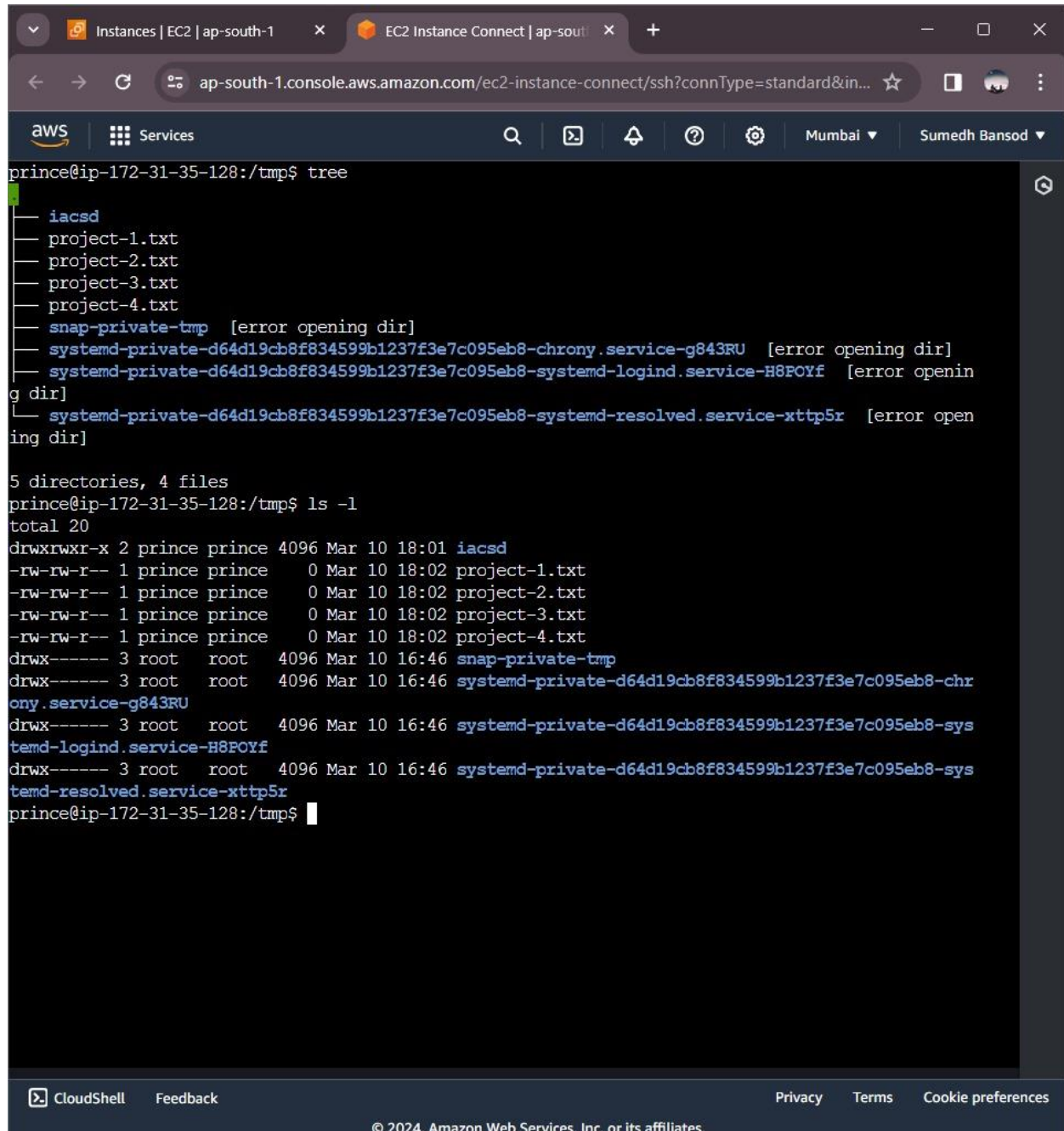
Bob in dbda

Sam in ditiss

```
root@ip-172-31-35-128:~# adduser tom dac
Adding user `tom' to group `dac' ...
Adding user tom to group dac
Done.
root@ip-172-31-35-128:~# adduser bob dbda
Adding user `bob' to group `dbda' ...
Adding user bob to group dbda
Done.
root@ip-172-31-35-128:~# adduser sam ditiss
Adding user `sam' to group `ditiss' ...
Adding user sam to group ditiss
Done.
root@ip-172-31-35-128:~# █
```

11. login as prince and create iacsd directory in /tmp and create 4 files in iacsd

with name project-1 project-2 upto 4



The screenshot shows an AWS CloudShell terminal window. The browser tabs at the top are 'Instances | EC2 | ap-south-1' and 'EC2 Instance Connect | ap-south-1'. The address bar shows the URL 'ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&in...'. The AWS logo and 'Services' menu are visible in the top navigation bar. The terminal output shows the user 'prince' at IP '172-31-35-128' in the '/tmp' directory. The user runs 'tree' and 'ls -l' commands. The 'tree' command shows a directory structure with 'iacsd' and four 'project-\*.txt' files, along with several system directories that failed to open. The 'ls -l' command shows the permissions and details of these files and directories.

```
prince@ip-172-31-35-128:/tmp$ tree
iacsd
project-1.txt
project-2.txt
project-3.txt
project-4.txt
snap-private-tmp [error opening dir]
systemd-private-d64d19cb8f834599b1237f3e7c095eb8-chrony.service-g843RU [error opening dir]
systemd-private-d64d19cb8f834599b1237f3e7c095eb8-systemd-logind.service-H8FOYf [error opening dir]
systemd-private-d64d19cb8f834599b1237f3e7c095eb8-systemd-resolved.service-xttp5r [error opening dir]

5 directories, 4 files
prince@ip-172-31-35-128:/tmp$ ls -l
total 20
drwxrwxr-x 2 prince prince 4096 Mar 10 18:01 iacsd
-rw-rw-r-- 1 prince prince  0 Mar 10 18:02 project-1.txt
-rw-rw-r-- 1 prince prince  0 Mar 10 18:02 project-2.txt
-rw-rw-r-- 1 prince prince  0 Mar 10 18:02 project-3.txt
-rw-rw-r-- 1 prince prince  0 Mar 10 18:02 project-4.txt
drwx----- 3 root    root    4096 Mar 10 16:46 snap-private-tmp
drwx----- 3 root    root    4096 Mar 10 16:46 systemd-private-d64d19cb8f834599b1237f3e7c095eb8-chrony.service-g843RU
drwx----- 3 root    root    4096 Mar 10 16:46 systemd-private-d64d19cb8f834599b1237f3e7c095eb8-systemd-logind.service-H8FOYf
drwx----- 3 root    root    4096 Mar 10 16:46 systemd-private-d64d19cb8f834599b1237f3e7c095eb8-systemd-resolved.service-xttp5r
prince@ip-172-31-35-128:/tmp$
```

CloudShell Feedback Privacy Terms Cookie preferences

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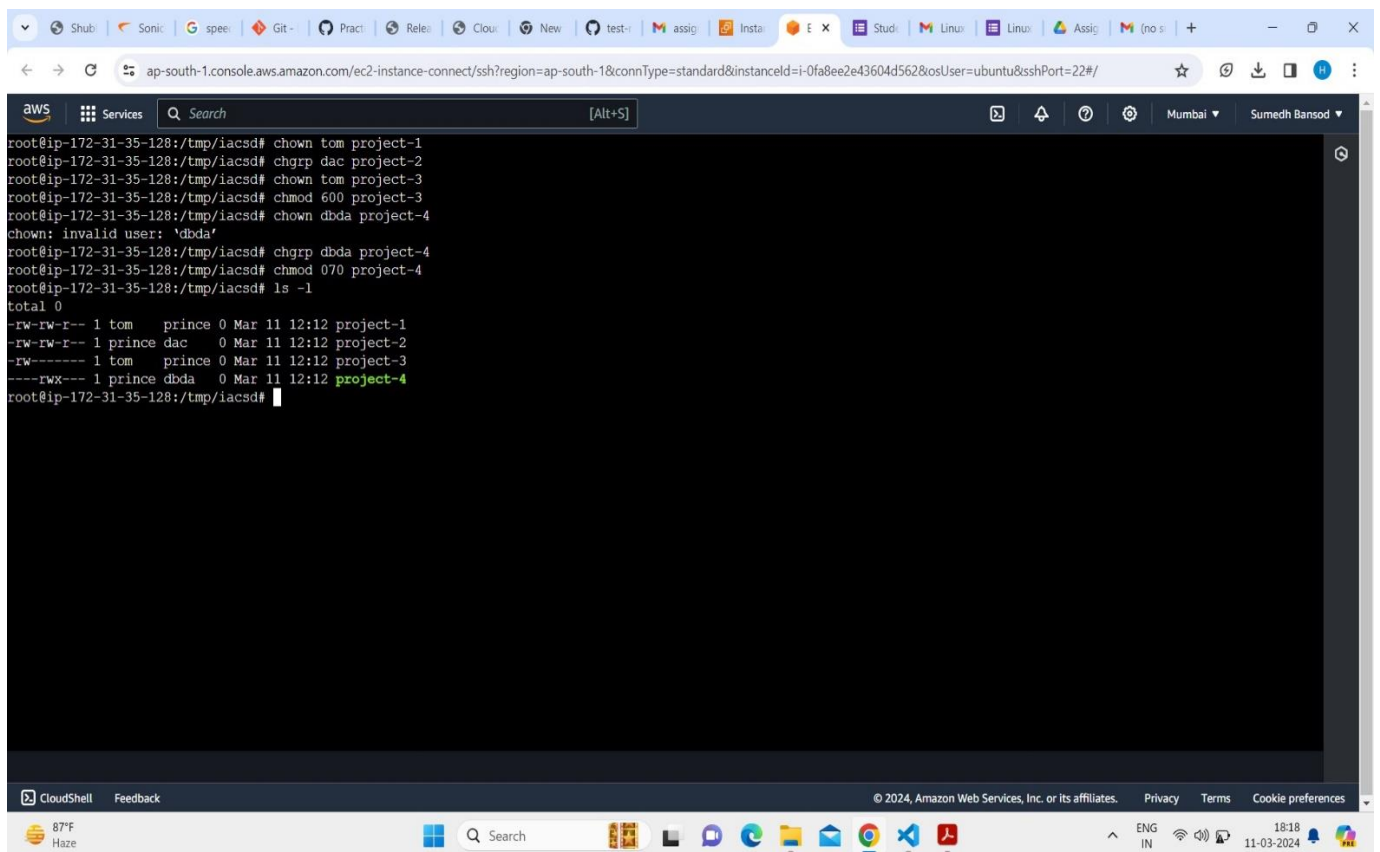
12. assign permissions to project files as below

Project-1 – tom should be owner of this

Project-2 – dac should be owner of this

Project-3 --- others should not have any permission but tom should have rw access

Project-4 – dbda group should have rwx permissions.



The screenshot shows an AWS CloudShell terminal window with the following commands and output:

```
root@ip-172-31-35-128:/tmp/iaacsd# chown tom project-1
root@ip-172-31-35-128:/tmp/iaacsd# chgrp dac project-2
root@ip-172-31-35-128:/tmp/iaacsd# chown tom project-3
root@ip-172-31-35-128:/tmp/iaacsd# chmod 600 project-3
root@ip-172-31-35-128:/tmp/iaacsd# chown dbda project-4
chown: invalid user: 'dbda'
root@ip-172-31-35-128:/tmp/iaacsd# chgrp dbda project-4
root@ip-172-31-35-128:/tmp/iaacsd# chmod 070 project-4
root@ip-172-31-35-128:/tmp/iaacsd# ls -l
total 0
-rw-rw-r-- 1 tom prince 0 Mar 11 12:12 project-1
-rw-rw-r-- 1 prince dac 0 Mar 11 12:12 project-2
-rw----- 1 tom prince 0 Mar 11 12:12 project-3
----rwx--- 1 prince dbda 0 Mar 11 12:12 project-4
root@ip-172-31-35-128:/tmp/iaacsd#
```

The terminal window is titled "CloudShell" and shows the AWS logo and "Services" tab. The browser address bar shows the URL: [ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instanceId=i-0fa8ee2e43604d562&osUser=ubuntu&sshPort=22#/](https://ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instanceId=i-0fa8ee2e43604d562&osUser=ubuntu&sshPort=22#/). The bottom status bar shows the temperature as 87°F Haze, the time as 18:18, and the date as 11-03-2024.

