

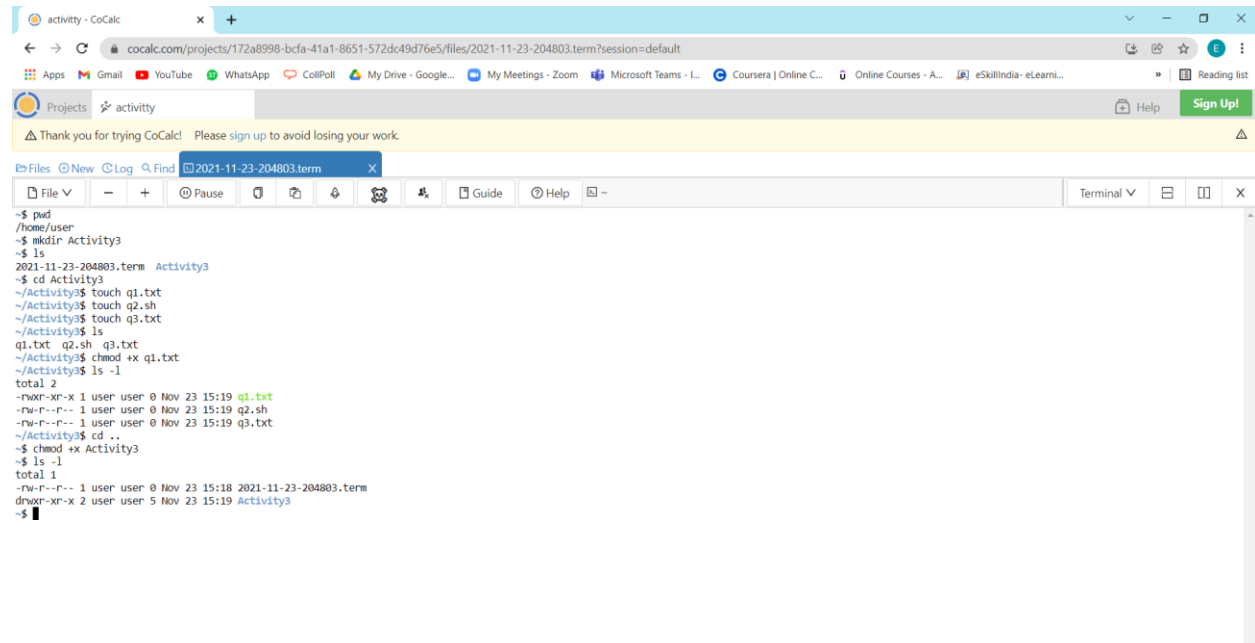
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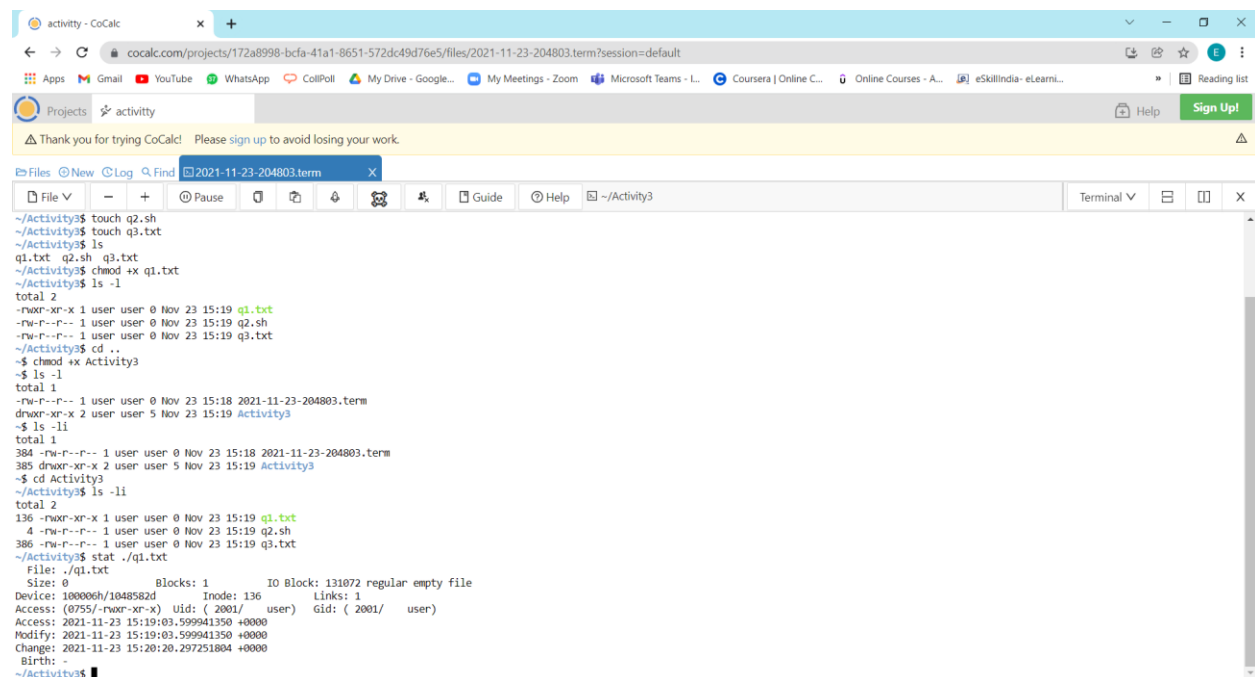
Activity: 3

1.



```
~$ pwd
/home/user
~$ mkdir Activity3
~$ ls
2021-11-23-204803.term  Activity3
~$ cd Activity3
~/Activity3$ touch q1.txt
~/Activity3$ touch q2.sh
~/Activity3$ touch q3.txt
~/Activity3$ ls
q1.txt q2.sh q3.txt
~/Activity3$ chmod +x q1.txt
~/Activity3$ ls -l
total 2
-rwxr-xr-x 1 user user 0 Nov 23 15:19 q1.txt
-rw-r--r-- 1 user user 0 Nov 23 15:19 q2.sh
-rw-r--r-- 1 user user 0 Nov 23 15:19 q3.txt
~/Activity3$ cd ..
~$ chmod +x Activity3
~$ ls -l
total 1
-rw-r--r-- 1 user user 0 Nov 23 15:18 2021-11-23-204803.term
drwxr-xr-x 2 user user 5 Nov 23 15:19 Activity3
~$
```

2.



```
~/Activity3$ touch q2.sh
~/Activity3$ touch q3.txt
~/Activity3$ ls
q1.txt q2.sh q3.txt
~/Activity3$ chmod +x q1.txt
~/Activity3$ ls -l
total 2
-rwxr-xr-x 1 user user 0 Nov 23 15:19 q1.txt
-rw-r--r-- 1 user user 0 Nov 23 15:19 q2.sh
-rw-r--r-- 1 user user 0 Nov 23 15:19 q3.txt
~/Activity3$ cd ..
~$ chmod +x Activity3
~$ ls -l
total 1
-rw-r--r-- 1 user user 0 Nov 23 15:18 2021-11-23-204803.term
drwxr-xr-x 2 user user 5 Nov 23 15:19 Activity3
~$ ls -li
total 1
384 -rw-r--r-- 1 user user 0 Nov 23 15:18 2021-11-23-204803.term
385 drwxr-xr-x 2 user user 5 Nov 23 15:19 Activity3
~$ cd Activity3
~/Activity3$ ls -li
total 2
136 -rwxr-xr-x 1 user user 0 Nov 23 15:19 q1.txt
4 -rw-r--r-- 1 user user 0 Nov 23 15:19 q2.sh
386 -rw-r--r-- 1 user user 0 Nov 23 15:19 q3.txt
~/Activity3$ stat ./q1.txt
File: ./q1.txt
Size: 0          Blocks: 1          IO Block: 131072 regular empty file
Device: 100006h/1048582d    Inode: 136          Links: 1
Access: (0755/-rwxr-xr-x)  Uid: ( 2001/  user)   Gid: ( 2001/  user)
Access: 2021-11-23 15:19:03.599941350 +0000
Modify: 2021-11-23 15:19:03.599941350 +0000
Change: 2021-11-23 15:20:20.297251804 +0000
Birth: -
~/Activity3$
```

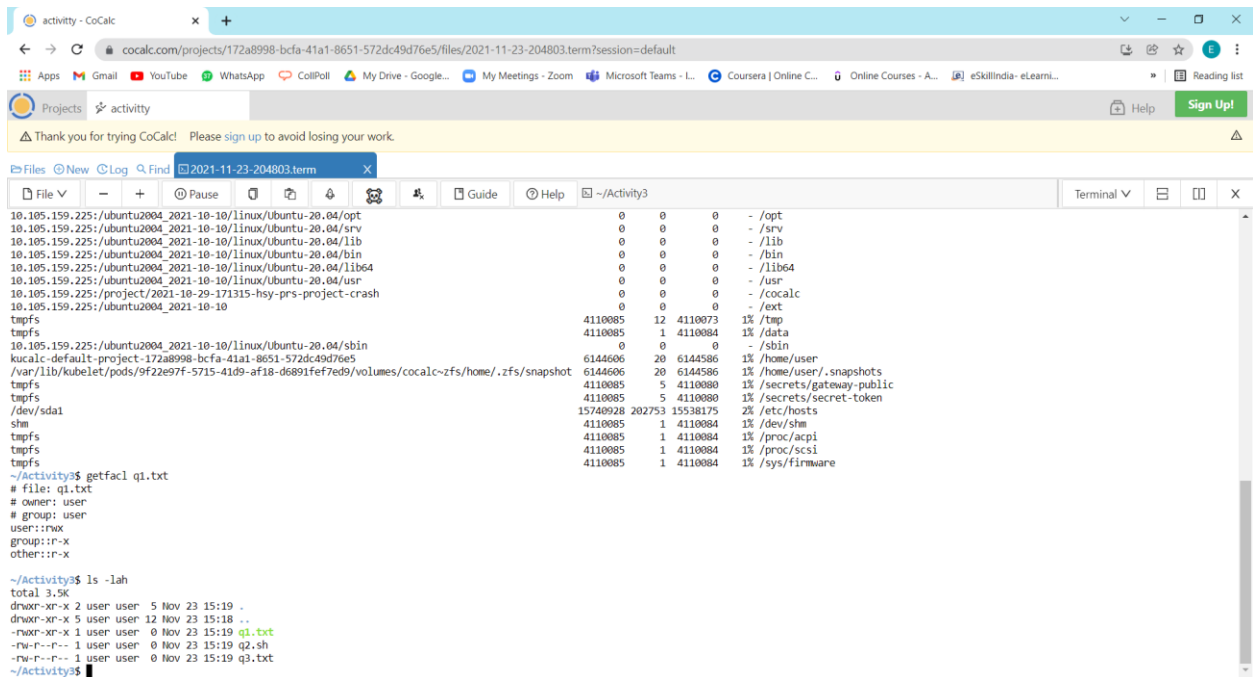
3.

The screenshot shows the CoCalc web interface. At the top, there's a navigation bar with icons for various applications like Gmail, YouTube, WhatsApp, etc. Below that, a banner says "Thank you for trying CoCalc! Please sign up to avoid losing your work." The main area is a terminal window titled "2021-11-23-204803.term". The terminal output shows a directory listing with permissions, owner, and group for various files and directories. The output is as follows:

```
overlay
tmpfs
tmpfs
10.105.159.225:/ubuntu2004_2021-10-10/linux/ubuntu-20.04/var
10.105.159.225:/ubuntu2004_2021-10-10/linux/ubuntu-20.04/etc
10.105.159.225:/ubuntu2004_2021-10-10/linux/ubuntu-20.04/lib32
10.105.159.225:/ubuntu2004_2021-10-10/linux/ubuntu-20.04/libx32
10.105.159.225:/ubuntu2004_2021-10-10/linux/ubuntu-20.04/opt
10.105.159.225:/ubuntu2004_2021-10-10/linux/ubuntu-20.04/srv
10.105.159.225:/ubuntu2004_2021-10-10/linux/ubuntu-20.04/lib
10.105.159.225:/ubuntu2004_2021-10-10/linux/ubuntu-20.04/bin
10.105.159.225:/ubuntu2004_2021-10-10/linux/ubuntu-20.04/lib64
10.105.159.225:/ubuntu2004_2021-10-10/linux/ubuntu-20.04/usr
10.105.159.225:/project/2021-10-29-171315-hsy-project-crash
10.105.159.225:/ubuntu2004_2021-10-10
tmpfs
tmpfs
10.105.159.225:/ubuntu2004_2021-10-10/linux/ubuntu-20.04/sbin
kcalc-default-project-172a8998-bcfa-41a1-8651-572dc49d76e5
/var/lib/kubelet/pods/9f22e97f-5715-41d9-a818-d6891fefed9d/volumes/cocalc~zfs/home/.zfs/snapshot
tmpfs
tmpfs
tmpfs
/dev/sda1
shm
tmpfs
tmpfs
tmpfs
tmpfs
~/Activity5$ getfacl q1.txt
# file: q1.txt
# owner: user
# group: user
user::rwx
group::r-x
other::r-x

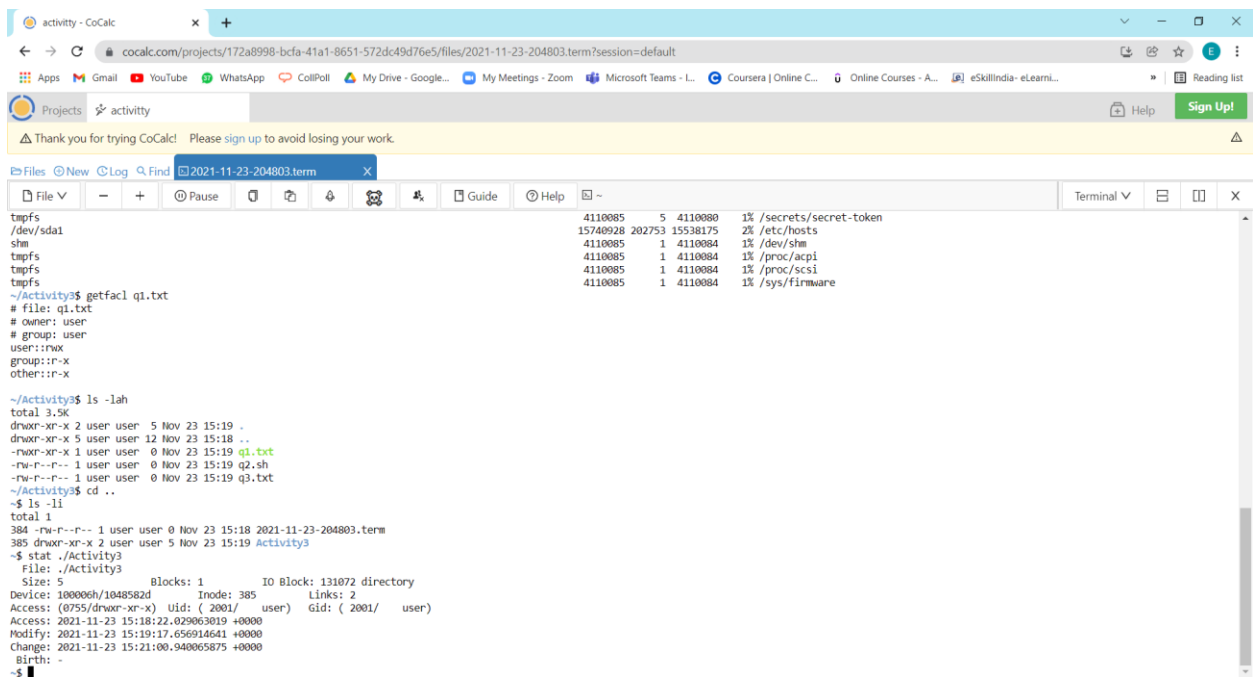
~/Activity5$
```

4.



```
activity - CoCalc
cocalc.com/projects/172a8998-bcfa-41a1-8651-572dc49d76e5/files/2021-11-23-204803.term?session=default
Apps Gmail YouTube WhatsApp ColiPoll My Drive - Google... My Meetings - Zoom Microsoft Teams - L... Coursera | Online C... Online Courses - A... eSkillIndia- eLearn... Reading list
Projects activity
Thank you for trying CoCalc! Please sign up to avoid losing your work.
Files New Log Find 2021-11-23-204803.term
File V - + @ Pause [Icons] Guide Help [Activity3] Terminal V [Icons] X
10.105.159.225:/ubuntu2004_2021-10-10/linux/ubuntu-20.04/opt 0 0 0 - /opt
10.105.159.225:/ubuntu2004_2021-10-10/linux/ubuntu-20.04/srv 0 0 0 - /srv
10.105.159.225:/ubuntu2004_2021-10-10/linux/ubuntu-20.04/lib 0 0 0 - /lib
10.105.159.225:/ubuntu2004_2021-10-10/linux/ubuntu-20.04/bin 0 0 0 - /bin
10.105.159.225:/ubuntu2004_2021-10-10/linux/ubuntu-20.04/lib64 0 0 0 - /lib64
10.105.159.225:/ubuntu2004_2021-10-10/linux/ubuntu-20.04/usr 0 0 0 - /usr
10.105.159.225:/project/2021-10-29-171315-hsy-prs-project-crash 0 0 0 - /cocalc
10.105.159.225:/ubuntu2004_2021-10-10 0 0 0 - /ext
tmpfs 4110085 12 4110073 1% /tmp
tmpfs 4110085 1 4110084 1% /data
10.105.159.225:/ubuntu2004_2021-10-10/linux/ubuntu-20.04/sbin 0 0 0 - /sbin
kucalc-default-project-172a8998-bcfa-41a1-8651-572dc49d76e5 6144606 20 6144586 1% /home/user
/var/lib/kubelet/pods/9f22e97f-5715-41d9-af18-d6891fe7ed9/volumes/cocalc~zfs/home/.zfs/snapshot 6144606 20 6144586 1% /home/user/.snapshots
tmpfs 4110085 5 4110080 1% /secrets/gateway-public
tmpfs 4110085 5 4110080 1% /secrets/secret-token
/dev/sda1 15740928 202753 15538175 2% /etc/hosts
shm 4110085 1 4110084 1% /dev/shm
tmpfs 4110085 1 4110084 1% /proc/acpi
tmpfs 4110085 1 4110084 1% /proc/scsi
tmpfs 4110085 1 4110084 1% /sys/firmware
~/Activity3$ getfacl q1.txt
# file: q1.txt
# owner: user
# group: user
user::rwx
group::r-x
other::r-x
~/Activity3$ ls -lah
total 3.5K
drwxr-xr-x 2 user user 5 Nov 23 15:19 .
drwxr-xr-x 5 user user 12 Nov 23 15:18 ..
-rwxr-xr-x 1 user user 0 Nov 23 15:19 q1.txt
-rw-r--r-- 1 user user 0 Nov 23 15:19 q2.sh
-rw-r--r-- 1 user user 0 Nov 23 15:19 q3.txt
~/Activity3$
```

5.



```
activity - CoCalc
cocalc.com/projects/172a8998-bcfa-41a1-8651-572dc49d76e5/files/2021-11-23-204803.term?session=default
Apps Gmail YouTube WhatsApp ColiPoll My Drive - Google... My Meetings - Zoom Microsoft Teams - L... Coursera | Online C... Online Courses - A... eSkillIndia- eLearn... Reading list
Projects activity
Thank you for trying CoCalc! Please sign up to avoid losing your work.
Files New Log Find 2021-11-23-204803.term
File V - + @ Pause [Icons] Guide Help [Activity3] Terminal V [Icons] X
tmpfs 4110085 5 4110080 1% /secrets/secret-token
/dev/sda1 15740928 202753 15538175 2% /etc/hosts
shm 4110085 1 4110084 1% /dev/shm
tmpfs 4110085 1 4110084 1% /proc/acpi
tmpfs 4110085 1 4110084 1% /proc/scsi
tmpfs 4110085 1 4110084 1% /sys/firmware
~/Activity3$ getfacl q1.txt
# file: q1.txt
# owner: user
# group: user
user::rwx
group::r-x
other::r-x
~/Activity3$ ls -lah
total 3.5K
drwxr-xr-x 2 user user 5 Nov 23 15:19 .
drwxr-xr-x 5 user user 12 Nov 23 15:18 ..
-rwxr-xr-x 1 user user 0 Nov 23 15:19 q1.txt
-rw-r--r-- 1 user user 0 Nov 23 15:19 q2.sh
-rw-r--r-- 1 user user 0 Nov 23 15:19 q3.txt
~/Activity3$ cd ..
-$ ls -li
total 1
384 -rw-r--r-- 1 user user 0 Nov 23 15:18 2021-11-23-204803.term
385 drwxr-xr-x 2 user user 5 Nov 23 15:19 Activity3
-$ stat ./Activity3
File: ./Activity3
Size: 5 Blocks: 1 IO Block: 131072 directory
Device: 100006h/1048582d Inode: 385 Links: 2
Access: (0755/drwxr-xr-x) Uid: ( 2001/ user) Gid: ( 2001/ user)
Access: 2021-11-23 15:18:22.029063019 +0000
Modify: 2021-11-23 15:19:17.656914641 +0000
Change: 2021-11-23 15:21:00.940065875 +0000
Birth: -
-$
```