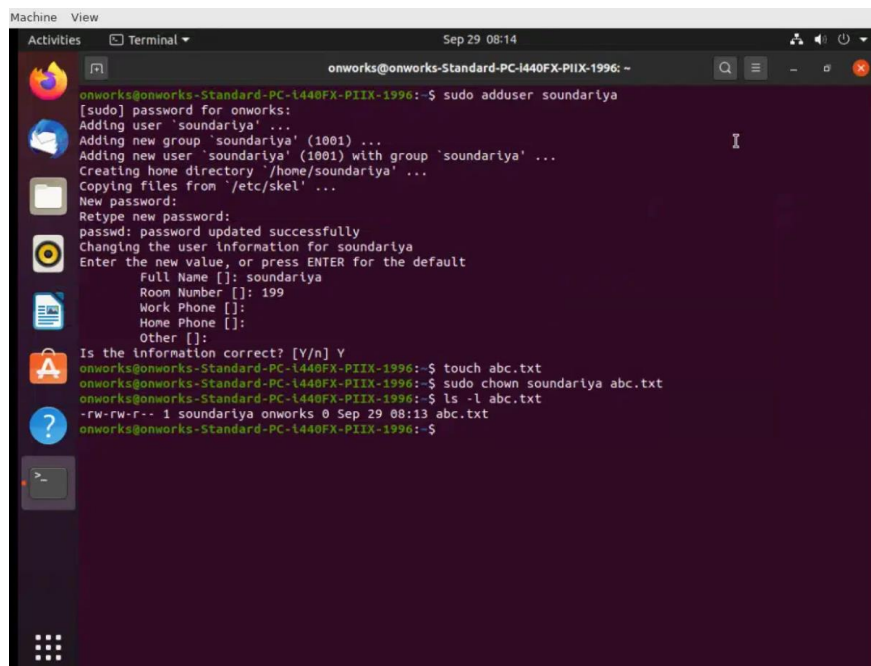


## File Attributes

1. Create a file abc.txt and change the ownership of this file to some other user on your machine,  
and also change the group to family.

### #commands in terminal

```
sudo adduser soundariya
touch abc.txt
sudo chown soundariya abc.txt
ls -l abc.txt
sudo adduser family
sudo chgrp family abc.txt
ls -l abc.txt
```



The screenshot shows a terminal window titled "Machine View" with a date and time of "Sep 29 08:14". The terminal prompt is "onworks@onworks-Standard-PC-l440FX-PIIX-1996: ~". The user enters the command "sudo adduser soundariya". The terminal displays the following output:

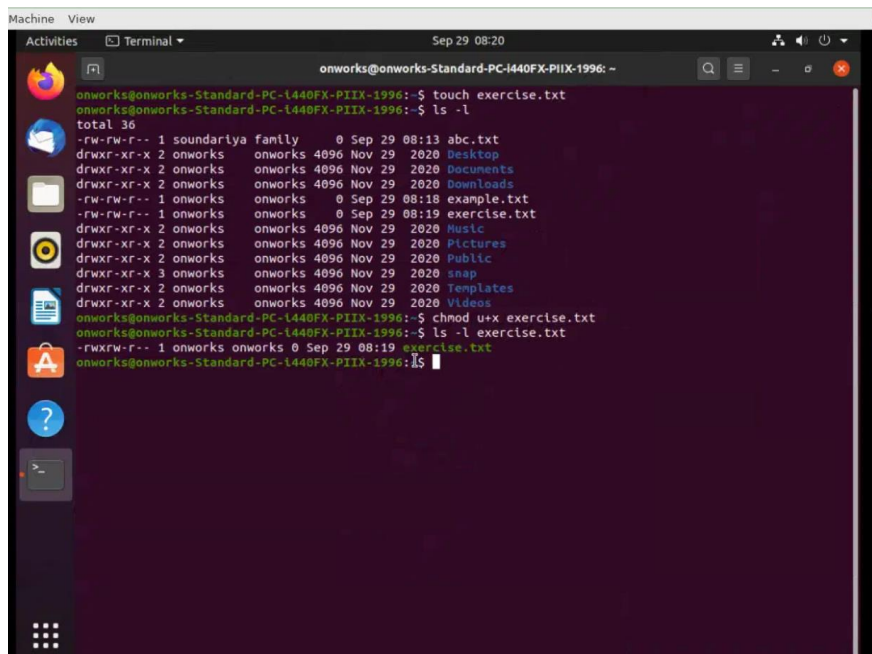
```
onworks@onworks-Standard-PC-l440FX-PIIX-1996:~$ sudo adduser soundariya
[sudo] password for onworks:
Adding user 'soundariya' ...
Adding new group 'soundariya' (1001) ...
Adding new user 'soundariya' (1001) with group 'soundariya' ...
Creating home directory '/home/soundariya' ...
Copying files from '/etc/skel' ...
New password:
Retype new password:
passwd: password updated successfully
Changing the user information for soundariya
Enter the new value, or press ENTER for the default
  Full Name []: soundariya
    Room Number []: 199
    Work Phone []:
    Home Phone []:
    Other []:
Is the information correct? [Y/n] Y
onworks@onworks-Standard-PC-l440FX-PIIX-1996:~$ touch abc.txt
onworks@onworks-Standard-PC-l440FX-PIIX-1996:~$ sudo chown soundariya abc.txt
onworks@onworks-Standard-PC-l440FX-PIIX-1996:~$ ls -l abc.txt
-rw-rw-r-- 1 soundariya onworks 0 Sep 29 08:13 abc.txt
onworks@onworks-Standard-PC-l440FX-PIIX-1996:~$
```

```
onworks@onworks-Standard-PC-l440FX-PIIX-1996:~$ sudo adduser family
Adding user 'family' ...
Adding new group 'family' (1003) ...
Adding new user 'family' (1003) with group 'family' ...
Creating home directory '/home/family' ...
Copying files from '/etc/skel' ...
New password:
Retype new password:
passwd: password updated successfully
Changing the user information for family
Enter the new value, or press ENTER for the default
    Full Name []: family
    Room Number []:
    Work Phone []:
    Home Phone []:
    Other []:
Is the information correct? [Y/n] Y
onworks@onworks-Standard-PC-l440FX-PIIX-1996:~$ sudo chgrp family abc.txt
onworks@onworks-Standard-PC-l440FX-PIIX-1996:~$ ls -l abc.txt
-rw-rw-r-- 1 soundariya family 0 Sep 29 08:13 abc.txt
onworks@onworks-Standard-PC-l440FX-PIIX-1996:~$
```

2. Create a file exercise.txt and make it executable.

### #commands in terminal

```
touch exercise.txt
ls -l
```



```
Machine View
Terminal
Sep 29 08:20
onworks@onworks-Standard-PC-l440FX-PIIX-1996: ~
onworks@onworks-Standard-PC-l440FX-PIIX-1996:~$ touch exercise.txt
onworks@onworks-Standard-PC-l440FX-PIIX-1996:~$ ls -l
total 36
-rw-rw-r-- 1 soundariya family 0 Sep 29 08:13 abc.txt
drwxr-xr-x 2 onworks onworks 4096 Nov 29 2020 Desktop
drwxr-xr-x 2 onworks onworks 4096 Nov 29 2020 Documents
drwxr-xr-x 2 onworks onworks 4096 Nov 29 2020 Downloads
-rw-rw-r-- 1 onworks onworks 0 Sep 29 08:18 example.txt
-rw-rw-r-- 1 onworks onworks 0 Sep 29 08:19 exercise.txt
drwxr-xr-x 2 onworks onworks 4096 Nov 29 2020 Music
drwxr-xr-x 2 onworks onworks 4096 Nov 29 2020 Pictures
drwxr-xr-x 2 onworks onworks 4096 Nov 29 2020 Public
drwxr-xr-x 3 onworks onworks 4096 Nov 29 2020 snap
drwxr-xr-x 2 onworks onworks 4096 Nov 29 2020 Templates
drwxr-xr-x 2 onworks onworks 4096 Nov 29 2020 Videos
onworks@onworks-Standard-PC-l440FX-PIIX-1996:~$ chmod u+x exercise.txt
onworks@onworks-Standard-PC-l440FX-PIIX-1996:~$ ls -l exercise.txt
-rwxrwxr-- 1 onworks onworks 0 Sep 29 08:19 exercise.txt
onworks@onworks-Standard-PC-l440FX-PIIX-1996:~$
```

3. Create a file test.txt on your desktop and identify its inode number, also create a softlink for test.txt in your home.

### #commands in terminal

```
ls -li test1.txt
ls -li test1.txt /home/onworks/example
```

```
Machine View
Sep 29 09:20
onworks@onworks-Standard-PC-l440FX-PIIX-1996: ~/Desktop
onworks@onworks-Standard-PC-l440FX-PIIX-1996:~/Desktop$ ls -l test1.txt
1708642 test1.txt
onworks@onworks-Standard-PC-l440FX-PIIX-1996:~/Desktop$ ln -s test1.txt /home/onworks/example
ln: failed to create symbolic link '/home/onworks/example/test1.txt': File exists
onworks@onworks-Standard-PC-l440FX-PIIX-1996:~/Desktop$ ls -li test1.txt /home/onworks/example
1708642 -rw-rw-r-- 1 onworks onworks 15 Sep 29 09:17 test1.txt
/home/onworks/example:
total 0
1708647 lrwxrwxrwx 1 onworks onworks 9 Sep 29 09:18 test1.txt -> test1.txt
onworks@onworks-Standard-PC-l440FX-PIIX-1996:~/Desktop$
```