

EmbedUR - Linux Training Program

Module - 1

Assignment – 4 (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.

Output:

```
aswinsankesh@aswin-linux:~$ cat > abc.txt
This is a test file
aswinsankesh@aswin-linux:~$
aswinsankesh@aswin-linux:~$ ls -l abc.txt
-rw-rw-r-- 1 aswinsankesh aswinsankesh 20 Sep 14 19:11 abc.txt
aswinsankesh@aswin-linux:~$ sudo chown aswin2 abc.txt
aswinsankesh@aswin-linux:~$ ls -l abc.txt
-rw-rw-r-- 1 aswin2 aswinsankesh 20 Sep 14 19:11 abc.txt
aswinsankesh@aswin-linux:~$ sudo chgrp family abc.txt
aswinsankesh@aswin-linux:~$ ls -l abc.txt
-rw-rw-r-- 1 aswin2 family 20 Sep 14 19:11 abc.txt
aswinsankesh@aswin-linux:~$
```

Explanation:

cat – for creating files

ls -l – for listing the information for the file

chown – changing the ownership to a new user

chgrp – changing the ownership of a group

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

Output:

```
aswinsankesh@aswin-linux:~$ cat > exercise.txt
This is a file named exercise
aswinsankesh@aswin-linux:~$ ls -l exercise.txt
-rw-rw-r-- 1 aswinsankesh aswinsankesh 30 Sep 14 19:15 exercise.txt
aswinsankesh@aswin-linux:~$ sudo chmod u+x exercise.txt
aswinsankesh@aswin-linux:~$ ls -l exercise.txt
-rwxrw-r-- 1 aswinsankesh aswinsankesh 30 Sep 14 19:15 exercise.txt
aswinsankesh@aswin-linux:~$
```

Explanation:

Chmod u+x => modification of user permission to executable

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

Output:

```
aswinsankesh@aswin-linux:~$ cd ~/Desktop
aswinsankesh@aswin-linux:~/Desktop$ cat > test.txt
This is a test file
aswinsankesh@aswin-linux:~/Desktop$ cd
aswinsankesh@aswin-linux:~$ ln -s ~/Desktop/test.txt test.txt
aswinsankesh@aswin-linux:~$ ls -li ~/Desktop/test.txt
1049254 /home/aswinsankesh/Desktop/test.txt
aswinsankesh@aswin-linux:~$ ls -li test.txt
1048713 test.txt
aswinsankesh@aswin-linux:~$
```

Explanation:

Ln -s => Creating a softlink

Ls -li => showing the inode