Linux basic commands assignment

Create a user with user group:

```
root@DevOps:/home/devops# adduser selim
Adding user `selim' ...
Adding new group `selim' (1001) ...
Adding new user `selim' (1001) with group `selim' ...
Creating home directory `/home/selim' ...
Copying files from `/etc/skel' ...
New password:
BAD PASSWORD: The password contains the user name in some form
Retype new password:
passwd: password updated successfully
Changing the user information for selim
Enter the new value, or press ENTER for the default
        Full Name []: Md. Selim Azad
        Room Number []:
        Work Phone []:
        Home Phone []:
        Other []:
Is the information correct? [Y/n] y
```

Create two directories in user's home directory:

```
selim@DevOps:~$ cd /home/selim/
selim@DevOps:~$ mkdir os-concepts
selim@DevOps:~$ mkdir ubuntu-is-the-best
selim@DevOps:~$ ls
os-concepts   ubuntu-is-the-best
selim@DevOps:~$ ls -l
total 8
drwxrwxr-x 2 selim selim 4096 অক্টোবর    8 10:58 os-concepts
drwxrwxr-x 2 selim selim 4096 অক্টোবর    8 10:58 ubuntu-is-the-best
selim@DevOps:~$
```

Create two files on each directory:

```
selim@DevOps:~$ cd os-concepts/
selim@DevOps:~/os-concepts$ touch os-concepts.txt
selim@DevOps:~/os-concepts$ cd ..
selim@DevOps:~$ cd
os-concepts/        ubuntu-is-the-best/
selim@DevOps:~$ cd ubuntu-is-the-best/
selim@DevOps:~/ubuntu-is-the-best$ touch ubuntu.txt
selim@DevOps:~/ubuntu-is-the-best$ ls
ubuntu.txt
```

List the files with detailed information:

```
selim@DevOps:~/ubuntu-is-the-best$ ls -l
total 0
-rw-rw-r-- 1 selim selim 0 অক্টোবর    8 11:04 ubuntu.txt
selim@DevOps:~/ubuntu-is-the-best$ cd ..
selim@DevOps:~$ cd os-concepts/
selim@DevOps:~/os-concepts$ ls -l
total 0
-rw-rw-r-- 1 selim selim 0 অক্টোবর    8 11:03 os-concepts.txt
```

Update file permission:

```
selim@DevOps:~/os-concepts$ ls -l
total 0
-rw-rw-r-- 1 selim selim 0 অক্টোবর    8 11:03 os-concepts.txt
selim@DevOps:~/os-concepts$ chmod 640 os-concepts.txt
selim@DevOps:~/os-concepts$ ls -l
total 0
-rw-r----- 1 selim selim 0 অক্টোবর    8 11:03 os-concepts.txt
```

Create another group:

```
root@DevOps:/home/devops# groupadd azad
root@DevOps:/home/devops# groups azad
groups: 'azad': no such user
root@DevOps:/home/devops# cat /etc/group
group    group-
root@DevOps:/home/devops# cat /etc/group
root:x:0:
daemon:x:1:
bin:x:2:
sys:x:3:
adm:x:4:syslog,devops
tty:x:5:
disk:x:6:
lp:x:7:
mail:x:8:
news:x:9:
uucp:x:10:
man:x:12:
proxy:x:13:
kmem:x:15:
dialout:x:20:
fax:x:21:
voice:x:22:
cdrom:x:24:devops
floppy:x:25:
tape:x:26:
sudo:x:27:devops
audio:x:29:pulse
dip:x:30:devops
www-data:x:33:
backup:x:34:
operator:x:37:
list:x:38:
irc:x:39:
src:x:40:
gnats:x:41:
shadow:x:42:
utmp:x:43:
video:x:44:
sasl:x:45:
plugdev:x:46:devops
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:
_ssh:x:112:
tss:x:113:
bluetooth:x:114:
ssl-cert:x:115:
uuidd:x:116:
systemd-oom:x:117:
tcpdump:x:118:
avahi-autoipd:x:119:
netdev:x:120:
avahi:x:121:
lpadmin:x:122:devops
rtkit:x:123:
whoopsie:x:124:
sssd:x:125:
fwupd-refresh:x:126:
nm-openvpn:x:127:
scanner:x:128:saned
saned:x:129:
colord:x:130:
geoclue:x:131:
pulse:x:132:
pulse-access:x:133:
gdm:x:134:
lxd:x:135:devops
devops:x:1000:
sambashare:x:136:devops
_cvsadmin:x:137:
selim:x:1001:
azad:x:1002:
```

Update file ownership:

```
root@DevOps:/home/devops# chown :azad /home/selim/os-concepts/os-concepts.txt
root@DevOps:/home/devops# chown :azad /home/selim/ubuntu-is-the-best/ubuntu.txt
root@DevOps:/home/devops# ls -l /home/selim/os-concepts/os-concepts.txt
-rw-r----- 1 selim azad 0 অক্টোবর    8 11:03 /home/selim/os-concepts/os-concepts.txt
root@DevOps:/home/devops# ls -l /home/selim/ubuntu-is-the-best/ubuntu.txt
-rw-rw-r-- 1 selim azad 0 অক্টোবর    8 11:04 /home/selim/ubuntu-is-the-best/ubuntu.txt
root@DevOps:/home/devops#
```

Create a file called crash

```
selim@DevOps:~$ cd /home/selim/
selim@DevOps:~$ ls
os-concepts   ubuntu-is-the-best
selim@DevOps:~$ mkdir crash
selim@DevOps:~$ echo "Crash in it" >> crash.in
selim@DevOps:~$ ls
crash  os-concepts   ubuntu-is-the-best
selim@DevOps:~$ find . -name "crash.in"
./crash/crash.in
selim@DevOps:~$
```

replace the lines

```
selim@DevOps:~$ find . -type f -name "*.in" | xargs sed "s/Crash in it/cra
sh to broken/g" crash.in
sed: can't read crash.in: No such file or directory
crash to broken
crash to broken
crash to broken
selim@DevOps:~$ find . -type f -name "*.in" | xargs sed -i "s/Crash in it/
crash to broken/g" crash.in
sed: can't read crash.in: No such file or directory
selim@DevOps:~$ cat /home/selim/crash/crash.in
crash to broken
selim@DevOps:~$
```