

## Task 1 : Create User

### Useradd command output

```
rutuja:x:1001:1001::/home/rutuja:/bin/sh
tokyo:x:1002:1002::/home/tokyo:/bin/sh
berlin:x:1003:1003::/home/berlin:/bin/sh
professor:x:1004:1004::/home/professor:/bin/sh
```

### Set password

```
root@1ce90c8c983b:/opt# passwd tokyo
New password:
Retype new password:
passwd: password updated successfully
root@1ce90c8c983b:/opt# passwd berlin
New password:
Retype new password:
passwd: password updated successfully
root@1ce90c8c983b:/opt# passwd professor
New password:
Retype new password:
passwd: password updated successfully
```

## Task 2 : Create Group

```
root@1ce90c8c983b:/# groupadd developers
root@1ce90c8c983b:/# groupadd admins
root@1ce90c8c983b:/# cat /etc/group
```

```
developers:x:1005:
admins:x:1006:
```

## Task 3 : Assign to group

```
root@1ce90c8c983b:/# usermod -aG developers tokyo
root@1ce90c8c983b:/# usermod -aG developers berlin
root@1ce90c8c983b:/# usermod -aG admin berlin
usermod: group 'admin' does not exist
root@1ce90c8c983b:/# usermod -aG admins berlin
root@1ce90c8c983b:/# usermod -aG admins professor
```

```
root@1ce90c8c983b:/# groups tokyo
tokyo : tokyo developers
root@1ce90c8c983b:/# groups berlin
berlin : berlin developers admins
root@1ce90c8c983b:/# groups professor
professor : professor admins
root@1ce90c8c983b:/# cd /home
```

## Task 4: Shared Directory

```
root@1ce90c8c983b:/# cd /home
root@1ce90c8c983b:/home# mkdir /opt/dev-project
```

```
drwxr-xr-x 2 root root 4096 Feb 24 18:03 dev-project
root@1ce90c8c983b:/opt# ls -l
total 4
drwxr-xr-x 2 root root 4096 Feb 24 18:03 dev-project
root@1ce90c8c983b:/opt# chgrp developers dev-project/
root@1ce90c8c983b:/opt# ls -l
total 4
drwxr-xr-x 2 root developers 4096 Feb 24 18:03 dev-project
root@1ce90c8c983b:/opt# chmod 775 /opt/dev-project
root@1ce90c8c983b:/opt# ls -l
total 4
drwxrwxr-x 2 root developers 4096 Feb 24 18:03 dev-project
```

```
root@1ce90c8c983b:/home# su - berlin
$ touch /opt/dev-project/tokyo.txt
$ exit
root@1ce90c8c983b:/home# ls -l /opt/dev-project/
total 0
-rw-rw-r-- 1 tokyo tokyo 0 Feb 24 19:27 tokyo-file.txt
-rw-rw-r-- 1 berlin berlin 0 Feb 24 19:33 tokyo.txt
root@1ce90c8c983b:/home# su - professor
$ touch /opt/dev-project/test.txt
touch: cannot touch '/opt/dev-project/test.txt': Permission denied
$
```

## Task 5 : Team Workspace

```
root@1ce90c8c983b:/home# useradd -m nairobi
root@1ce90c8c983b:/home# groupadd project-team
root@1ce90c8c983b:/home# cat /etc/group
```

```
project-team:x:1008:
root@1ce90c8c983b:/home# usermod -aG project-team nairobi
root@1ce90c8c983b:/home# usermod -aG project-team tokyo
root@1ce90c8c983b:/home# mkdir /opt/team-workspace
root@1ce90c8c983b:/home# ls -l /opt/
total 8
drwxrwxr-x 2 root developers 4096 Feb 24 18:03 dev-project
drwxr-xr-x 2 root root      4096 Feb 24 18:26 team-workspace
root@1ce90c8c983b:/home# chgrp project-team /opt/team-workspace
```

```
root@1ce90c8c983b:/home# chmod 775 /opt/team-workspace/
root@1ce90c8c983b:/home# ls -l /opt/team-workspace/
total 0
root@1ce90c8c983b:/home# ls -l /opt/team-workspace
total 0
root@1ce90c8c983b:/home# ls -l /opt
total 8
drwxrwxr-x 2 root developers 4096 Feb 24 18:03 dev-project
drwxrwxr-x 2 root project-team 4096 Feb 24 18:26 team-workspace
```