

Assigmeant 4

```
(tkbw@vbox)-[/home]
$ sudo script assignint_session.log
[sudo] password for tkbw:
Script started, output log file is 'assignint_session.log'.
```

=> This will create a file called Assignment_Sssion.log where all orders and outputs are recorded during the session.

```
(root@vbox)-[/home]
# adduser user1
info: Adding user 'user1' ...
info: Selecting UID/GID from range 1000 to 59999 ...
info: Adding new group 'user1' (1003) ...
info: Adding new user 'user1' (1003) with group 'user1' (1003) ...
warn: The home directory '/home/user1' already exists. Not touching this directory.
warn: Warning: The home directory '/home/user1' does not belong to the user you are currently c
reating.
New password:
Retype new password:
passwd: password updated successfully
Changing the user information for user1
Enter the new value, or press ENTER for the default
  Full Name []: 5
  Room Number []: 5
  Work Phone []: 52
  Home Phone []: 65
  Other []: 5
Is the information correct? [Y/n] Y
info: Adding new user 'user1' to supplemental / extra groups 'users' ...
info: Adding user 'user1' to group 'users' ...

(root@vbox)-[/home]
# adduser user2
info: Adding user 'user2' ...
info: Selecting UID/GID from range 1000 to 59999 ...
info: Adding new group 'user2' (1011) ...
info: Adding new user 'user2' (1011) with group 'user2' (1011) ...
warn: The home directory '/home/user2' already exists. Not touching this directory.
warn: Warning: The home directory '/home/user2' does not belong to the user you are currently c
reating.
New password:
Retype new password:
```

=> Create a group and users

Create a new collection as Project_Team and add two user1 and USer2 users

```
(root@vbox)-[/home]
# groupadd project_team

(root@vbox)-[/home]
# usermod -a -G project_team user1

(root@vbox)-[/home]
# usermod -a -G project_team user2
```

```
(root@vbox)-[/home]
# passwd user1
New password:
Retype new password:
passwd: password updated successfully
```

=> Set passwords for users

```
(root@vbox)-[/home]
# passwd user2
New password:
Retype new password:
passwd: password updated successfully
```

```
(root@vbox)-[/home]
# for user in user1 user2; do
for i in {1..5}; do
  mkdir -p /home/$user/folder$i
  for j in {1..5}; do
    touch /home/$user/folder$i/file$j.txt
    echo "This is file$j in folder$i for $user" > /home/$user/folder$i/file$j.txt
  done
done
done
```

=> Use a text program to create 5 volumes (Folder1 to Folder5) inside the folder of each user, then create 5 files

(File1.TXT to File5.TXT) within each folder

```
(root@vbox)-[/home]
# for user in user1 user2; do
for i in {1..5}; do
  echo "Welcome to file management in Linux. This is part of an assignment to practice creati
ng directories and using the find command." >> /home/$user/folder$i/file1.txt
done
done
```

=> You can add a custom message in File1.txt inside each folder using Echo

```

—(root@vbox)-[/home]
# find /home/user1 /home/user2 -name "file3.txt"
/home/user1/folder3/file3.txt
/home/user1/folder1/file3.txt
/home/user1/folder2/file3.txt
/home/user1/folder4/file3.txt
/home/user1/folder5/file3.txt
/home/user2/folder3/file3.txt
/home/user2/folder1/file3.txt
/home/user2/folder2/file3.txt
/home/user2/folder4/file3.txt
/home/user2/folder5/file3.txt

```

=> Search for files by name

```

—(root@vbox)-[/home]
# chmod 644 /home/user1/folder1/file1.txt

—(root@vbox)-[/home]
# chmod 600 /home/user2/folder2/file3.txt

```

=> Change some file permissions
to train to use Find -Perm later

```

—(root@vbox)-[/home]
# sudo find /home/user1 /home/user2 -perm 644
/home/user1/folder3/file5.txt
/home/user1/folder3/file4.txt
/home/user1/folder3/file1.txt
/home/user1/folder3/file3.txt
/home/user1/folder3/file2.txt
/home/user1/folder1/file5.txt
/home/user1/folder1/file4.txt
/home/user1/folder1/file1.txt
/home/user1/folder1/file3.txt
/home/user1/folder1/file2.txt
/home/user1/folder2/file5.txt
/home/user1/folder2/file4.txt
/home/user1/folder2/file1.txt
/home/user1/folder2/file3.txt
/home/user1/folder2/file2.txt
/home/user1/folder4/file5.txt
/home/user1/folder4/file4.txt
/home/user1/folder4/file1.txt
/home/user1/folder4/file3.txt
/home/user1/folder4/file2.txt
/home/user1/folder5/file5.txt
/home/user1/folder5/file4.txt
/home/user1/folder5/file1.txt
/home/user1/folder5/file3.txt
/home/user1/folder5/file2.txt
/home/user2/folder3/file5.txt
/home/user2/folder3/file4.txt
/home/user2/folder3/file1.txt
/home/user2/folder3/file3.txt
/home/user2/folder3/file2.txt

```

=> Search for files by
permissions

```
(root@vbox)-[/home]
# find /home/user1 -user user1

/home/user1
/home/user1/folder3
/home/user1/folder3/file5.txt
/home/user1/folder3/file4.txt
/home/user1/folder3/file1.txt
/home/user1/folder3/file3.txt
/home/user1/folder3/file2.txt
/home/user1/folder1
/home/user1/folder1/file5.txt
/home/user1/folder1/file4.txt
/home/user1/folder1/file1.txt
/home/user1/folder1/file3.txt
/home/user1/folder1/file2.txt
/home/user1/folder2
/home/user1/folder2/file5.txt
/home/user1/folder2/file4.txt
/home/user1/folder2/file1.txt
/home/user1/folder2/file3.txt
/home/user1/folder2/file2.txt
/home/user1/folder4
/home/user1/folder4/file5.txt
/home/user1/folder4/file4.txt
/home/user1/folder4/file1.txt
/home/user1/folder4/file3.txt
/home/user1/folder4/file2.txt
/home/user1/folder5
/home/user1/folder5/file5.txt
/home/user1/folder5/file4.txt
/home/user1/folder5/file1.txt
/home/user1/folder5/file3.txt
/home/user1/folder5/file2.txt
```

=> Searching for files according to the owner

```
(root@vbox)-[/home]
# exit
Script done.
```

=> Completion of the implementation of all orders

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