Sheet 3

Problem 1 :

A Medical company is hiring a financial manger his name is Hossam and another person which is a store manager and his name is Maged The administrator of the company system is called Mohamed And now.

1- Mohamed will Create two users (Hossam - Maged) Hossam will be with files in home directory and Maged without files Hossam will have password

2-Mohamed will delete the old Financial manager ahmed.

3- Mohamed Will Create two groups which called Financial & Store

4- Mohamed Will Add Hossam to Finanical and Maged to Store

5- Hossam will login with his account to the system and now he wants to know the groups he belongs to And he found that he belongs to Financal group And he want to show the salary files of the employees and he want to edit the salary of first 2 employees

6- now Hossam will Create a New file called Modified_Employees

Maged will login too

7-He have a Directory which called Medicines contains a lot of files of medicines he want to find the capsules file and Search for Panadol in the file.

Answer :

1- Create Hossam and Maged

ls /home

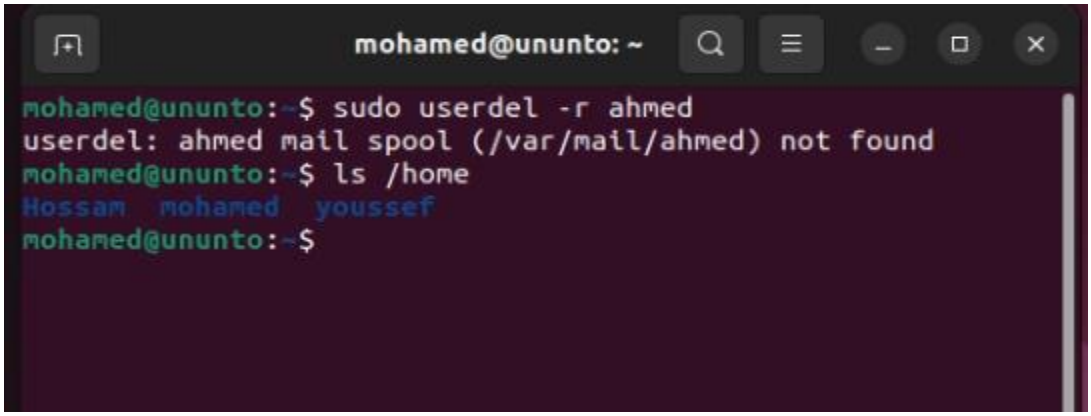
sudo useradd -m -s /bin/bash Hossam (with files)

sudo useradd Maged (without files)

sudo passwd Hossam

2- Delete ahmed

sudo userdel -r ahmed (delete with files)



3- Add Financial and Store groups

sudo groupadd Financial

sudo groupadd Store

use : getent group (to show all groups)

4- Add users to groups

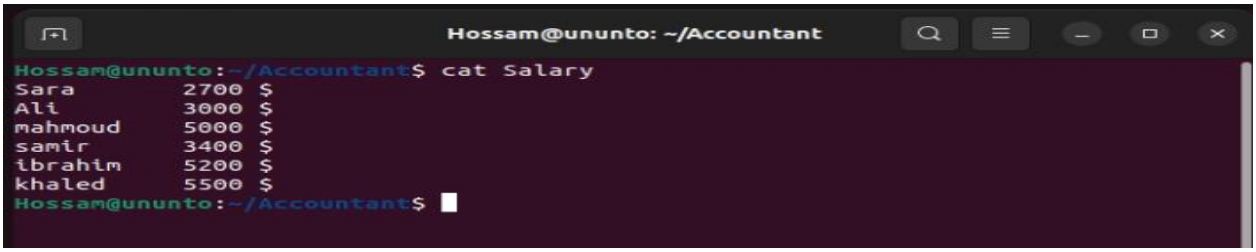
sudo usermod -aG Financial Hossam

sudo usermod -aG Store Maged

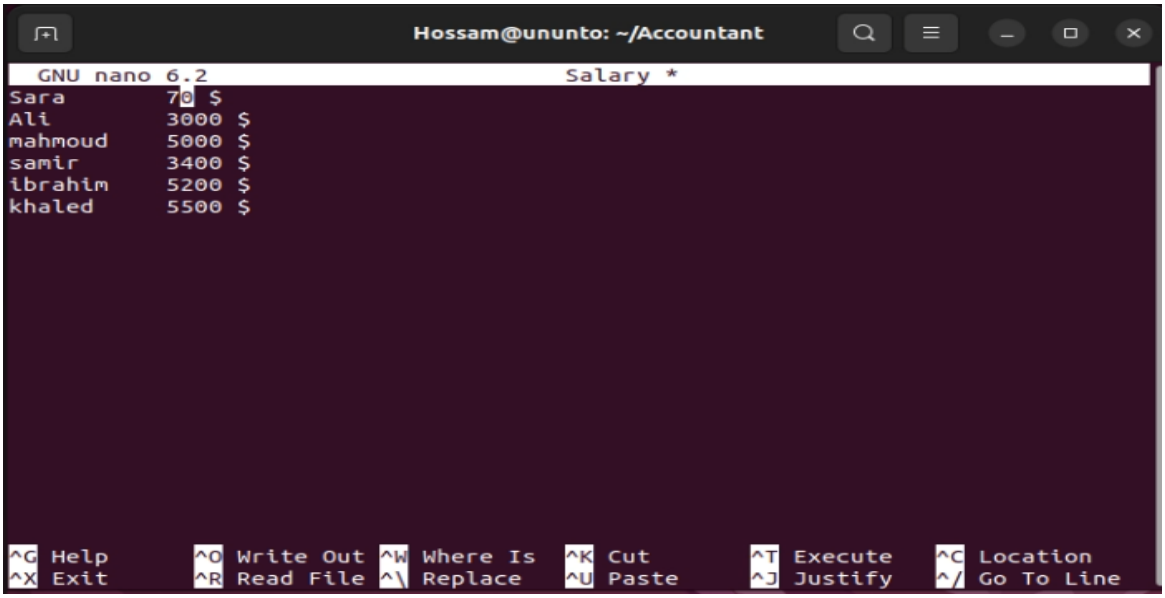
5- Hossam Groups

whoami
groups Hossam

Show Salary : cat Salary



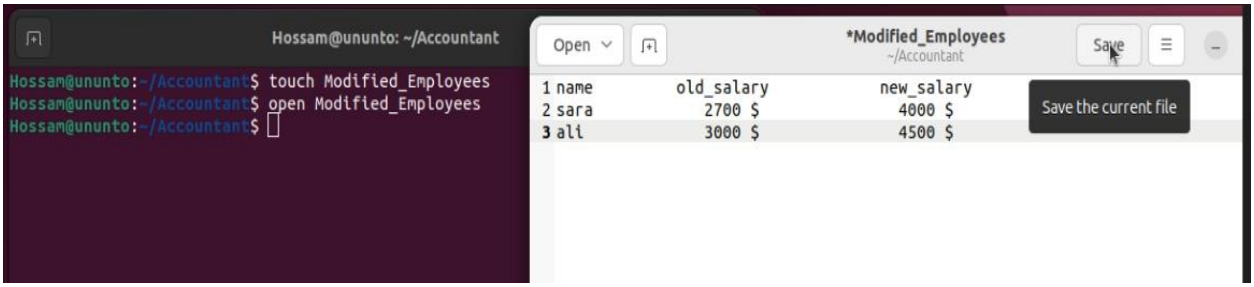
Edit Salary : nano Salary



6- Create Modified_Employees

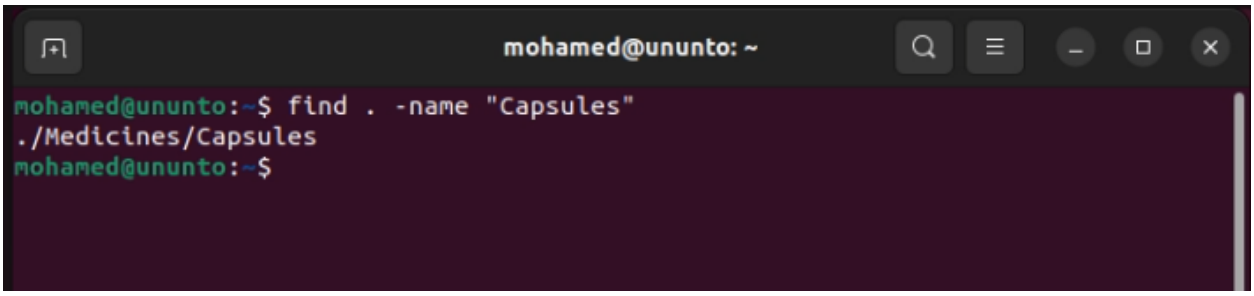
touch Modified_Employees

open Modified_Employees



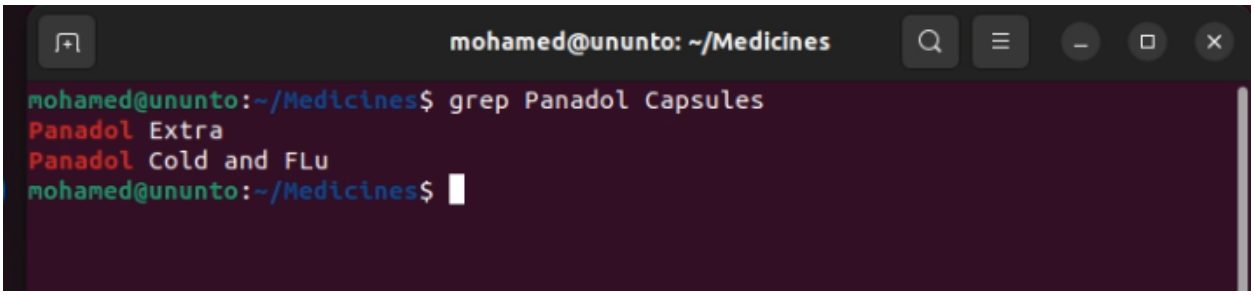
7- Find Capsules file

find . -name "Capsules"



Search for Panadol

grep Panadol Capsules



Problem 2 :

You work as administrator in a digital library, your manager told you to arrange the folders of the books .

1- You create 4 folders with types of book (History / Science / Sport / Programming)

2- Move Python book to Programming folder

3- A student came to you and wants to borrow a book , you have to add the student at the end of borrow_logs file which we follow changes on it.

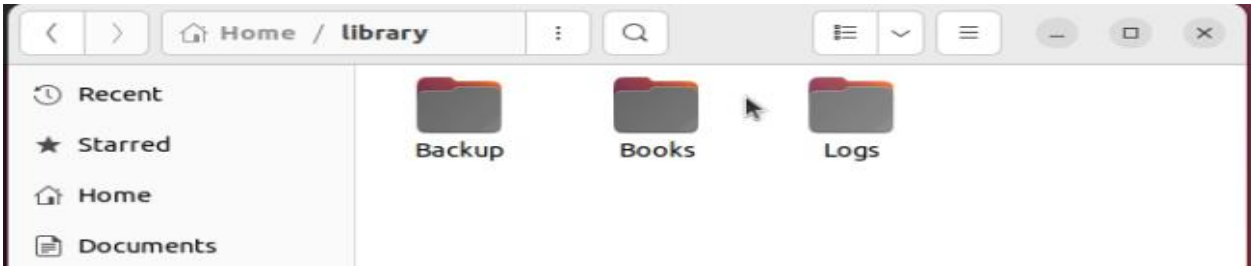
4- You add the student twice by wrong in borrow_logs file and you want to delete the redundancy.

5- You find an old book called old physics and you want to remove it.

6- You want to Archieve books folders in Books.Rar and then Decompress the Archieve

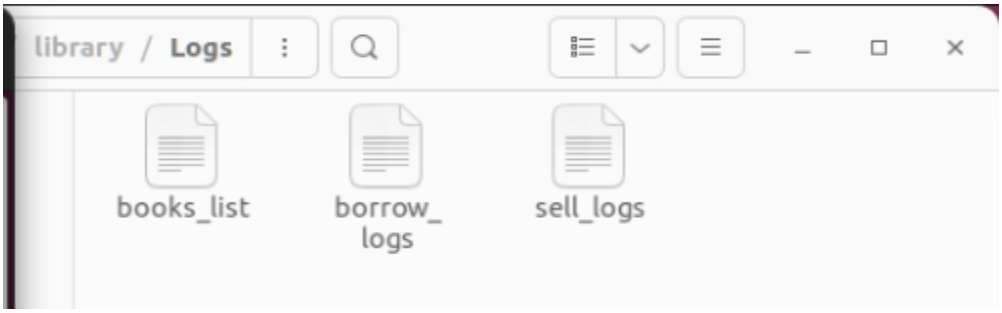
Answer : First we need to know the design of the library

We have 3 directories (Backup / Books / Log)



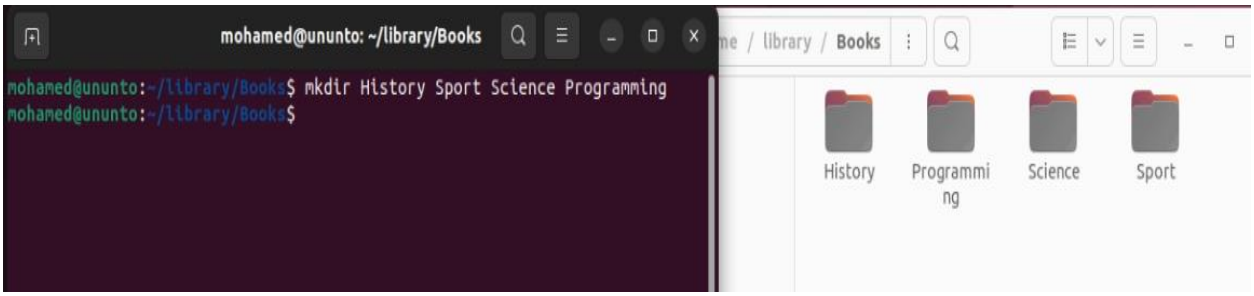
In Books we have 4 directories (Science / Sport / History / Progamming)

In Logs we have 3 files (books_list / borrow_logs / sell_logs)



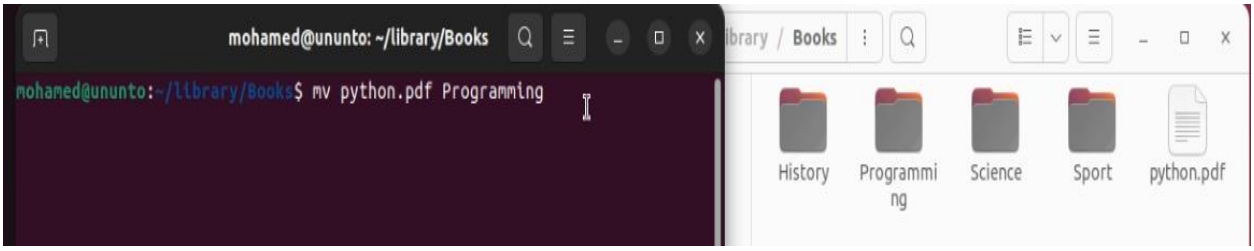
1- Create Books Folders

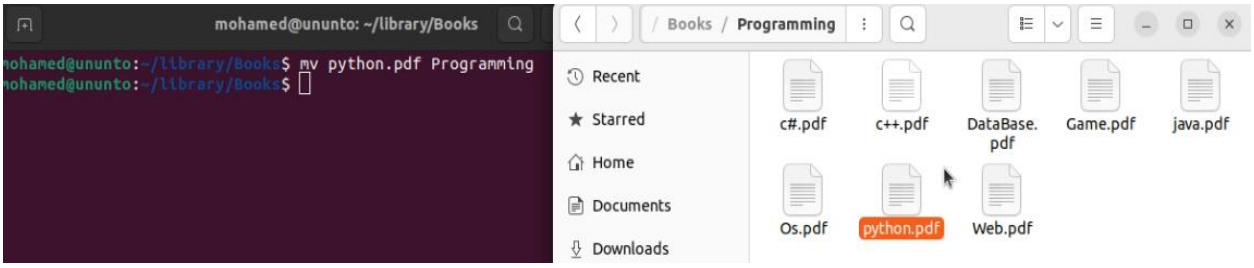
mkdir Sport History Programming Science



2- Move python.pdf book to Programming folder

mv python.pdf Programming

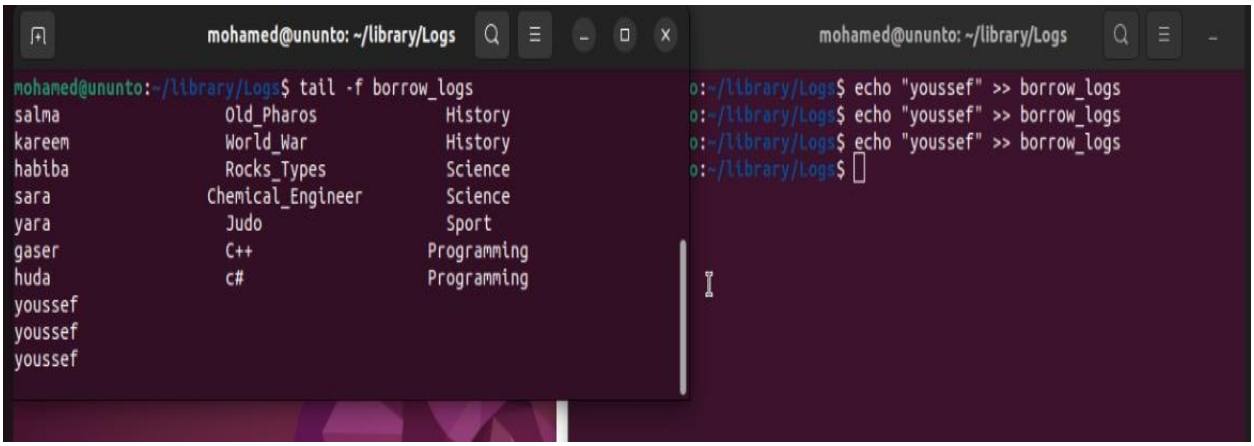




3- Add Student called Youssef to borrow_logs file and follow changes on the file .

To follow file : tail -f borrow_logs

To add Youssef : echo "Youssef" >> borrow_logs



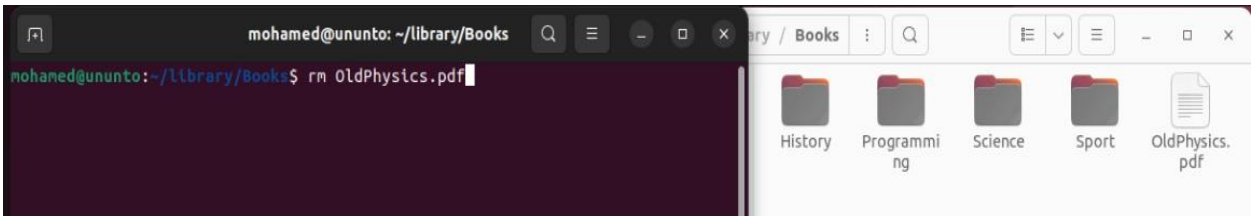
Hint : Here you add Youssef 3 times by wrong

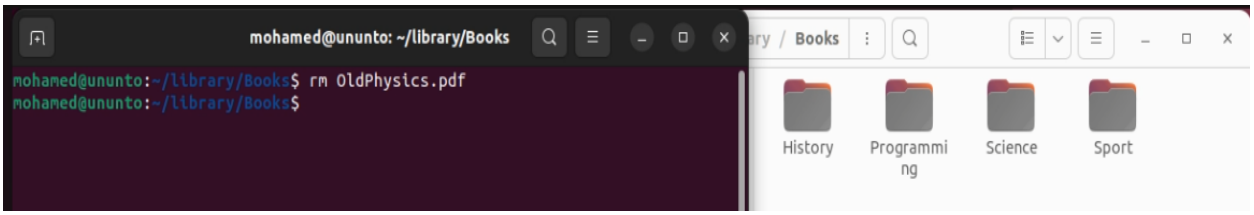
Now u want to delete the redundancy

4- We will use uniq command to delete consecutive line

5- Remove OldPhysics.pdf Book

rm OldPhysics.pdf

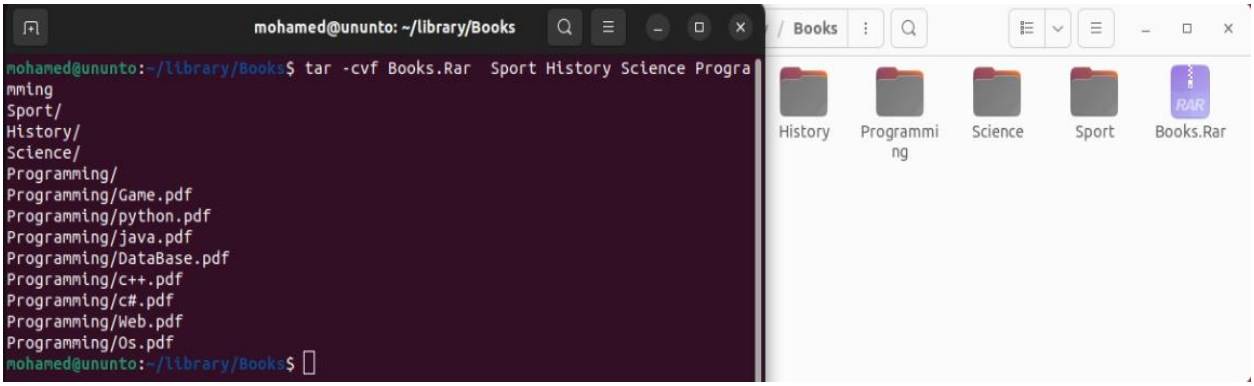




6- Archive Books directories into Books.Rar

To archive we use : tar -cvf Books.Rar History Sport Science Programming

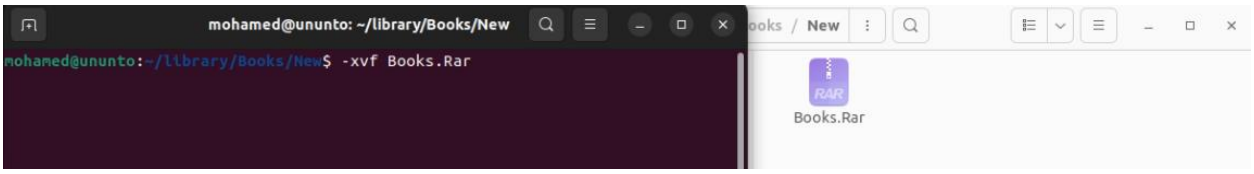
c : means create v : means verbose f : means file

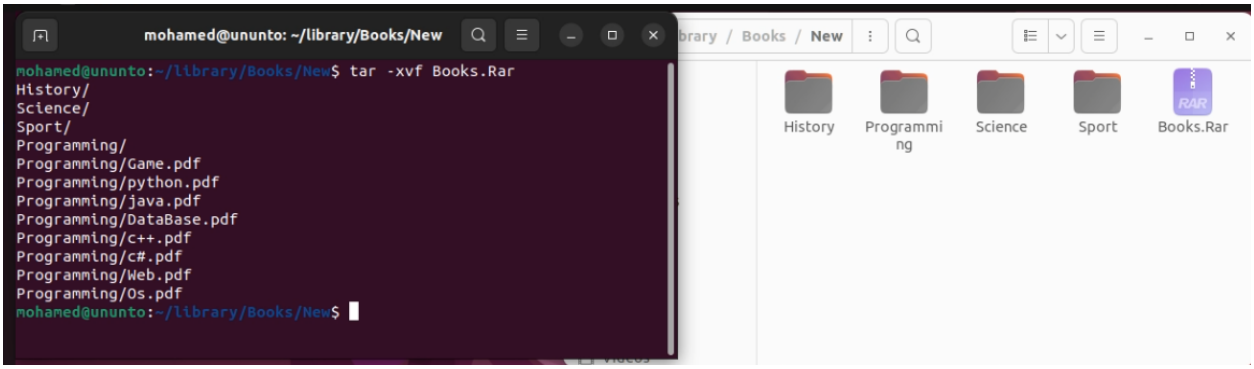


Decompress the archieve

To decompress the archieve use : tar -xvf Books.Rar

x : means excute





Hint after decompress the archive the archived file remains the same Books.Rar