

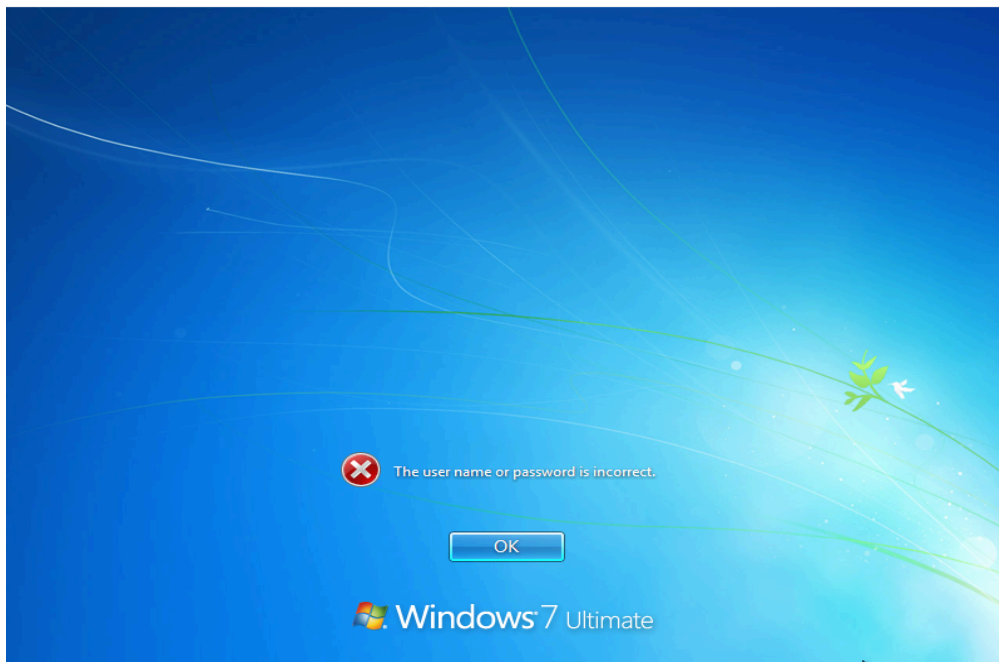
OPHCRACK TOOL

Crack the password of a windows machine by using the ophcrack tool in the virtual machine on windows 7 and try get the password, along with that mention the path of the SAM file in windows and explain about SAM file usage and how it can be cracked by tool.

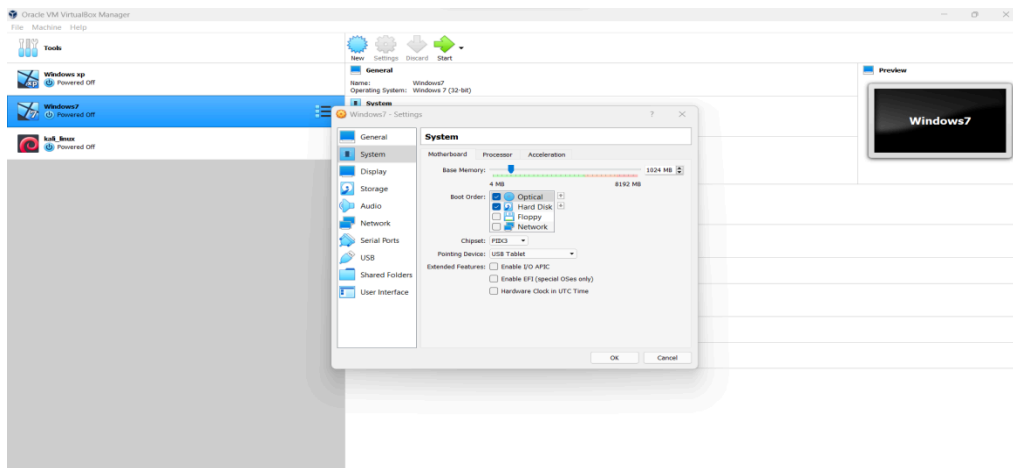
STEP 1: Start your Windows 7 on virtual box. You can see there are 2 accounts.



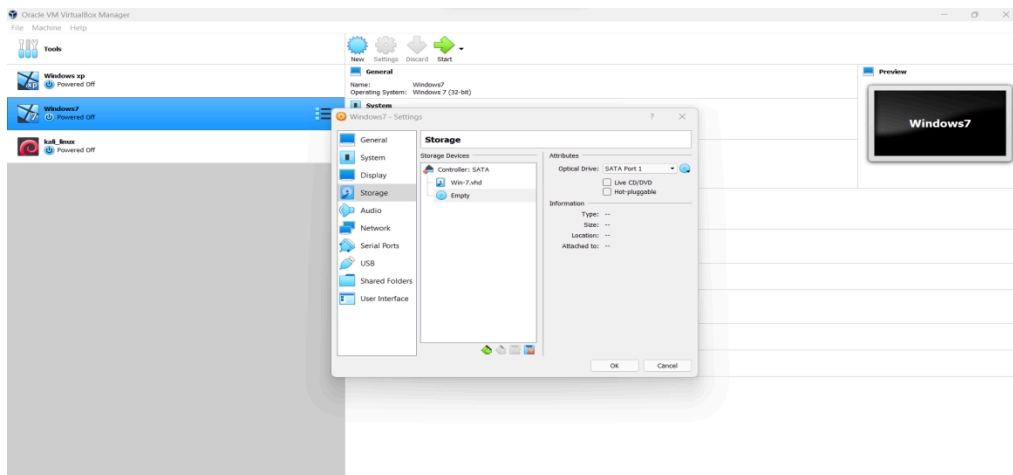
STEP 2: You do not have the password, due to which your access is denied.



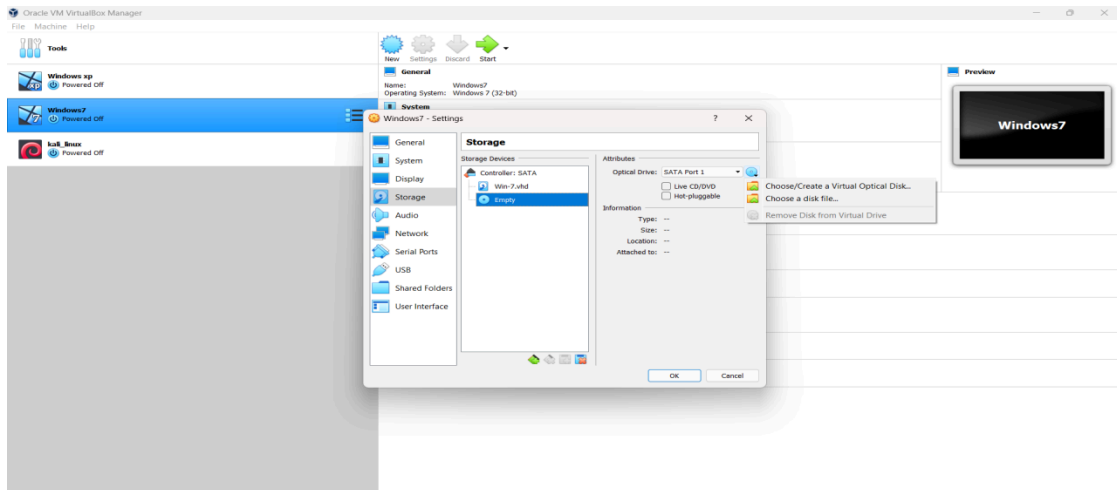
STEP 3: Close your Windows 7 and open the settings for Windows 7. Click on system and select ‘Optical’ drive to be the first in boot order.



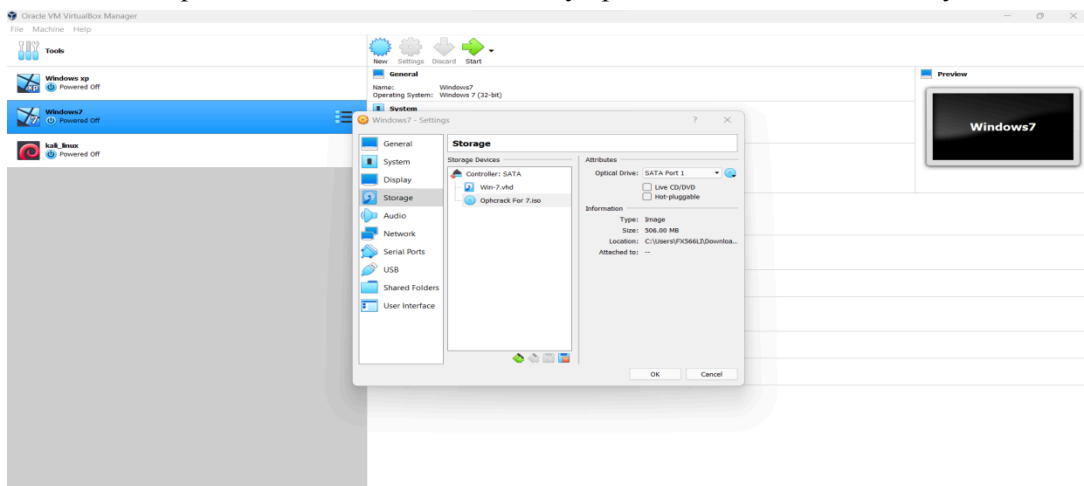
STEP 4: Click on storage and select the empty optical drive option.



STEP 5: Click on the Optical drive menu icon and select the ‘Choose a disk file’ option and upload the ophcrack file.



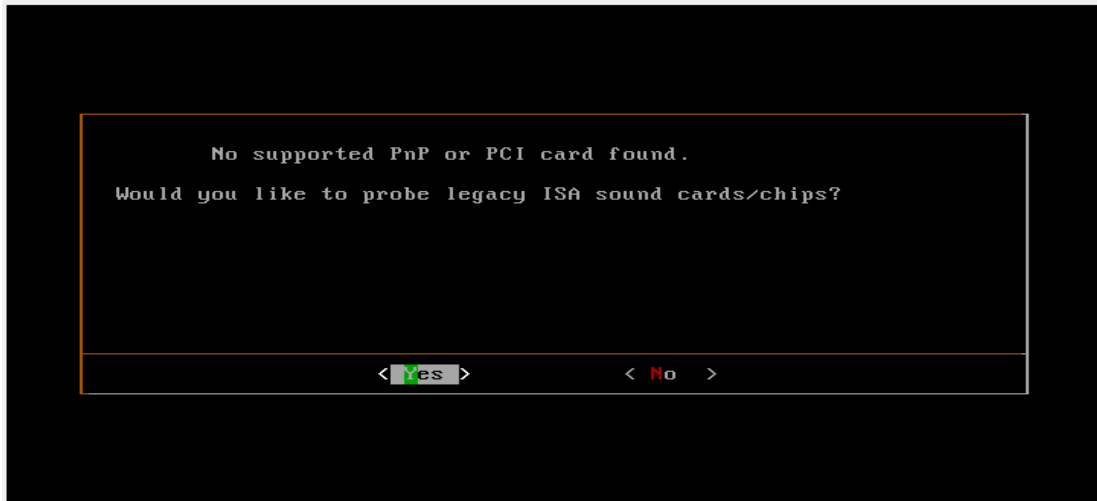
STEP 6: The ophcrack file has been successfully uploaded. Start Windows 7 in your virtualbox.



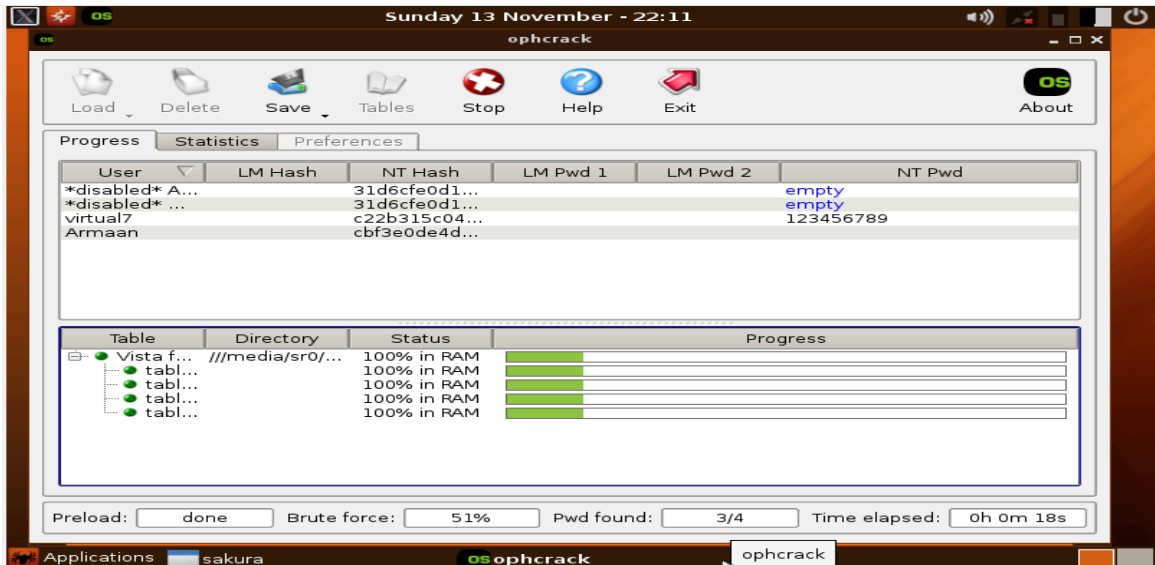
STEP 7: Due to its 1st priority Ophcrack has been loaded.



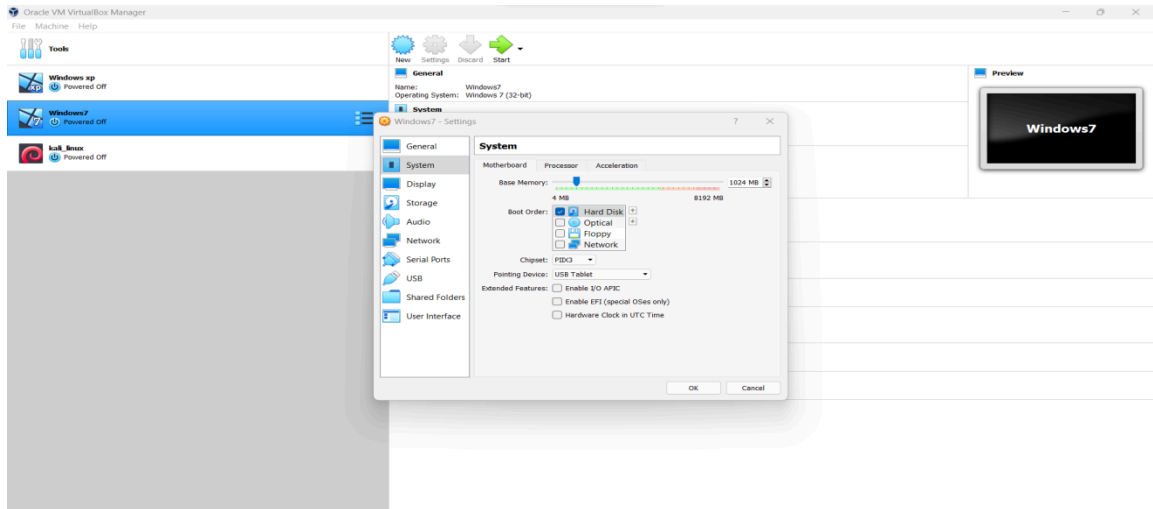
STEP 8: Click on 'NO' or else your system may be jeopardized.



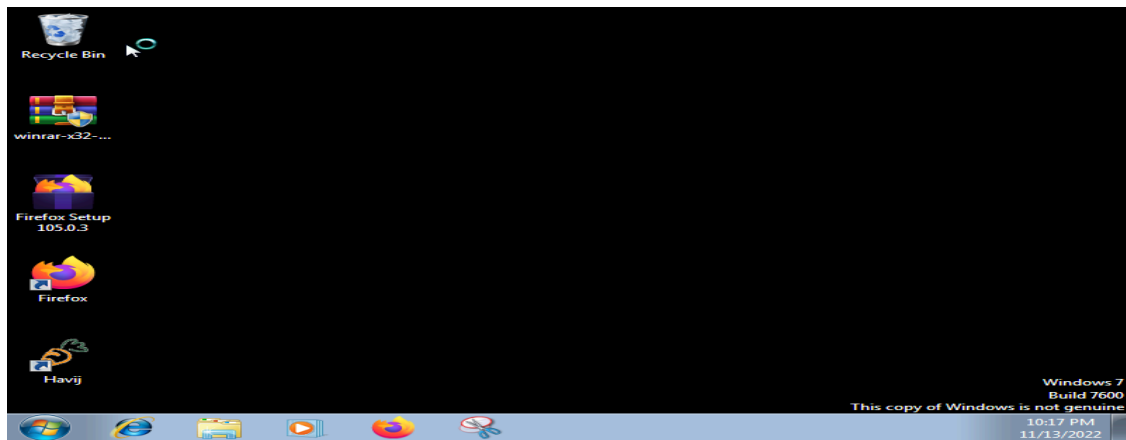
STEP 9: Ophcrack will start the process of cracking the password. If the password is simple then it will be cracked in seconds but if it has medium difficulty then it will take a while.



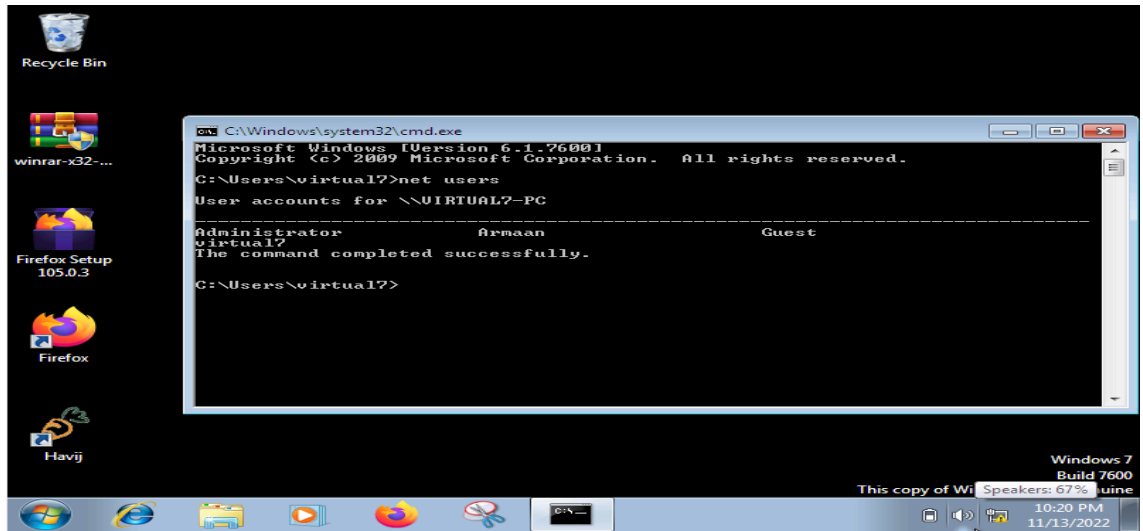
STEP 10: Once the password is cracked, close Windows 7 and reset the settings for the Windows 7 in virtual box.



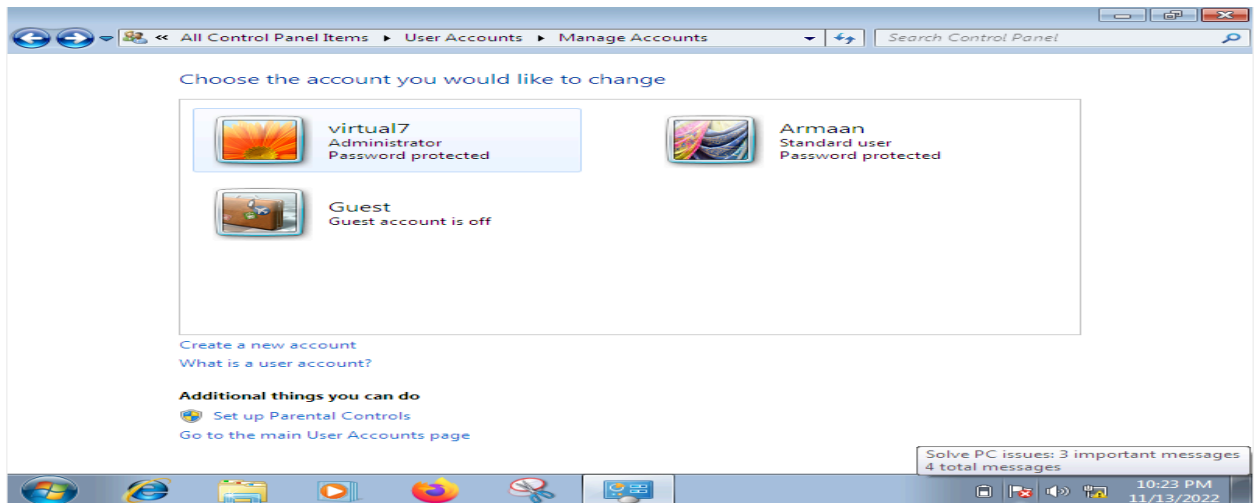
STEP 11: No with the passwords we can get access for the user accounts and use Windows normally

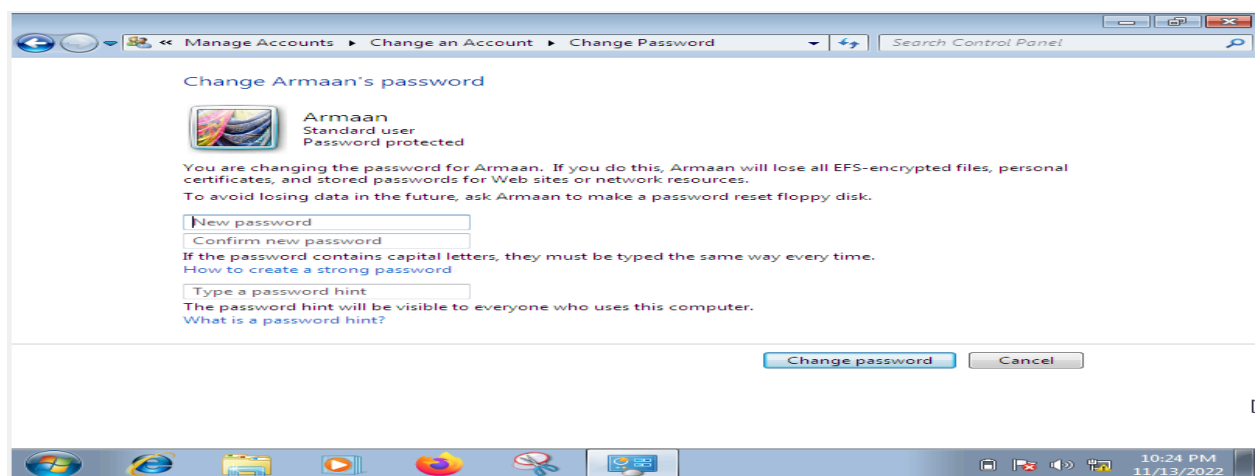
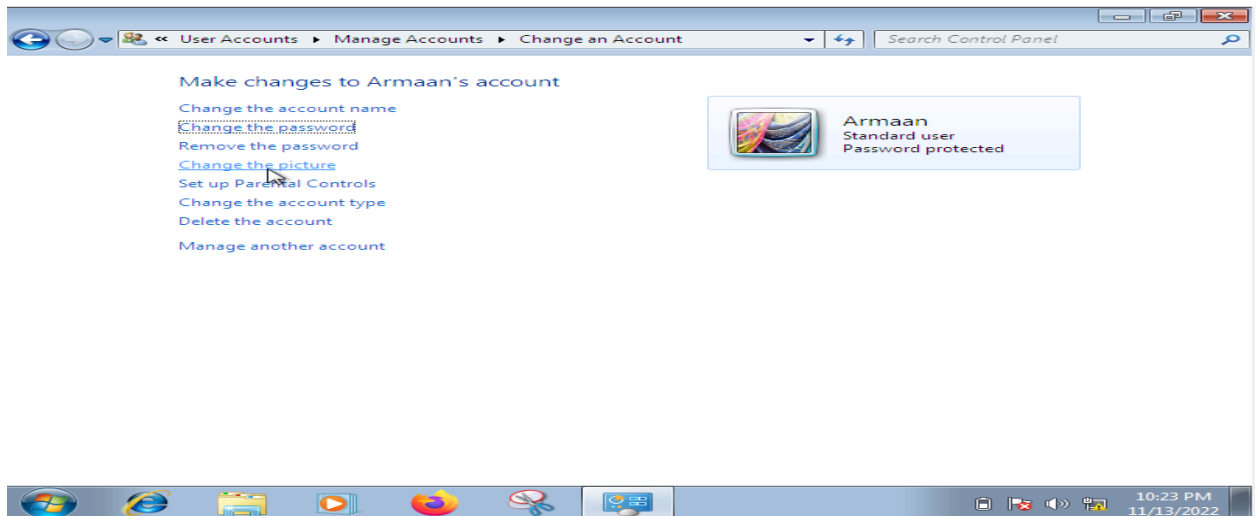


STEP 12: Open the command prompt and enter the command 'net users' to get the information about the user accounts.



STEP 13: Open the control panel. Go for 'User accounts >> Manage different accounts >> Change passwords'.





In this way we can change the password for different accounts as well.

- **SAM files:**

- The Security Account Manager (SAM) is a database that is present on computers running Windows operating systems that stores user accounts and security descriptors for users on the local computer.
- If the SAM is somehow deleted in some way while Windows is running, the system loses all user account passwords, resulting in Windows throwing an error exception (Blue Screen) and shutting down.