Instruction:

Complete all questions in 2 hrs.

1. Start the Terminal program from the top menu bar (Applications -> Accessories -> Terminal).
2. Use commands cd, cd .. , cd / to navigate through the directories. Create the directory HCK in the desktop.

```
aman098@DESKTOP-07MO5MD:/mnt/c/users/97798/desktop$ mkdir Pokhara
aman098@DESKTOP-07MO5MD:/mnt/c/users/97798/desktop$ cd kathmandu
aman098@DESKTOP-07MO5MD:/mnt/c/users/97798/desktop/kathmandu$ touch Barahi.txt
aman098@DESKTOP-07MO5MD:/mnt/c/users/97798/desktop/kathmandu$ mv Barahi.txt ../Pokhara
aman098@DESKTOP-07MO5MD:/mnt/c/users/97798/desktop/kathmandu$ ls
aman098@DESKTOP-07MO5MD:/mnt/c/users/97798/desktop/kathmandu$ cd ..
aman098@DESKTOP-07MO5MD:/mnt/c/users/97798/desktop$ cd Pokhara
aman098@DESKTOP-07MO5MD:/mnt/c/users/97798/desktop/Pokhara$ ls
Barahi.txt
aman098@DESKTOP-07MO5MD:/mnt/c/users/97798/desktop/Pokhara$ cd ..
aman098@DESKTOP-07MO5MD:/mnt/c/users/97798/desktop$ mkdir HCK
aman098@DESKTOP-07MO5MD:/mnt/c/users/97798/desktop$ pwd
/mnt/c/users/97798/desktop
aman098@DESKTOP-07MO5MD:/mnt/c/users/97798/desktop$ ls -1
'(Aman)Quote of the day.png'
'(Tutorial9)np03cs4a220245@heraldcollege.edu.np.pdf'
'(np03cs4a220245@heraldcollege.edu.np)Cover-Letter.pdf'
'(np03cs4a220245@heraldcollege.edu.np)Cyber security.pdf'
'2330473_Aman Kumar Sah_Week8_Report.pdf'
'Aman Kumar Sah_2330473-_Wps05.pdf'
BlueJ.lnk
'Course structure.png'
Creators_Community.png
Gmail.url
'Google Classroom.url'
HCK
OneNote.lnk
Pokhara
```

3. Write the command to print current working directory. List the files and directories in the current working directories. Insert the image of your terminal here.

```
newuser@DESKTOP-07MO5MD:/mnt/c/users/97798/desktop/Video
s$ ls -1
newuser@DESKTOP-07MO5MD:/mnt/c/users/97798/desktop/Video
s$ pwd
/mnt/c/users/97798/desktop/Videos
newuser@DESKTOP-07MO5MD:/mnt/c/users/97798/desktop/Video
s$
```

4. Create New.txt file containing text "Herald College Kathmandu", in the HCK directory.

```
aman098@DESKTOP-O7MO5MD:/mnt/c/users/97798/desktop/HCK$ cat New.txt
aman098@DESKTOP-O7MO5MD:/mnt/c/users/97798/desktop/HCK$
```

5. Delete New.txt file from HCK directory.

```
aman098@DESKTOP-O7MO5MD:/mnt/c/users/97798/desktop/HCK$ rm New.txt
aman098@DESKTOP-O7MO5MD:/mnt/c/users/97798/desktop/HCK$
ls -1
aman098@DESKTOP-O7MO5MD:/mnt/c/users/97798/desktop/HCK$
```

6. Remove directory HCK from the Desktop.

```
aman098@DESKTOP-O7MO5MD:/mnt/c/users/97798/desktop$ rmdir HCK
aman098@DESKTOP-O7MO5MD:/mnt/c/users/97798/desktop$ ls
'(Aman)Quote of the day.png'
'(Tutorial9)np03cs4a220245@heraldcollege.edu.np.pdf'
'(np03cs4a220245@heraldcollege.edu.np)Cover-Letter.pdf'
'(np03cs4a220245@heraldcollege.edu.np)Cyber security.pdf'
'2330473_Aman Kumar Sah_Week8_Report.pdf'
'Aman Kumar Sah_2330473-_Wps05.pdf'
 BlueJ.lnk
'Course structure.png'
 Creators_Community.png
 Gmail.url
'Google Classroom.url'
 OneNote.lnk
 Pokhara
'Programming Workshop 6 (np03cs4a220245@heraldcollege.edu.np).pdf'
'Report writing(np03cs4a220245@heraldcollege.edu.np).pdf'
'Report writing.pdf'
'Screenshot 2023-01-15 234618.png'
'Screenshot 2023-01-17 221639.png'
'Tutorial7(np03cs4a220245@heraldcollege.edu.np) (1).pdf''Visual Studio Code.lnk'
 Word.lnk
'Wordpress(Event).pdf'
'Workshop 7 (np03cs4a220245@heraldcollege.edu.np).pdf'
'Workshop6(np03cs4a220245@heraldcollege.edu.np).pdf'
 canva.png
 cesar_cipher_2330473..py
'cesarciphers(Aman Kumar shah)student Id=2330473(question answers).py.pdf'
'chat jpt.url'
'coding challenge'
 desktop.ini
'fundamental of computing tutorial.pdf'
'herald dev corps.jpg'
```

7. Create directory Kathmandu in the desktop containing file Swayambhu.txt,
   Rename Swayambhu.txt as Barahi.txt

```
aman098@DESKTOP-O7MO5MD:/mnt/c/users/97798/desktop$ mkdir Kathmandu
mkdir: cannot create directory 'Kathmandu': File exists
aman098@DESKTOP-O7MO5MD:/mnt/c/users/97798/desktop$ touch Swayambhu txt
aman098@DESKTOP-O7MO5MD:/mnt/c/users/97798/desktop$ ls
'(Aman)Quote of the day.png'
'(Tutorial9)np03cs4a220245@heraldcollege.edu.np.pdf'
'(np03cs4a220245@heraldcollege.edu.np)Cover-Letter.pdf'
'(np03cs4a220245@heraldcollege.edu.np)Cyber security.pdf'
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'Report writing(np03cs4a220245@heraldcollege.edu.np).pdf'
'Report writing.pdf'
'Screenshot 2023-01-15 234618.png'
'Screenshot 2023-01-17 221639.png'
 Swayambhu
'Tutorial7(np03cs4a220245@heraldcollege.edu.np) (1).pdf''Visual Studio Code.lnk'
 Word.lnk
'Wordpress(Event).pdf'
'Workshop 7 (np03cs4a220245@heraldcollege.edu.np).pdf'
'Workshop6(np03cs4a220245@heraldcollege.edu.np).pdf'
 canva.png
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'cesarciphers(Aman Kumar shah)student Id=2330473(question answers).py.pdf'
'chat jpt.url'
'coding challenge'
 desktop.ini
'fundamental of computing tutorial.pdf'
'herald dev corps.jpg'
 herald_dev_corps-removebg-preview.png
 Kathmandu
 krish.txt
 logo-removebg-preview.png
 logo.png
 logsim
'mood off.py'
 name.txt
'np03cs4a220245@heraldcollege.edu.np(Week 9)Tutorial (1).pdf'
'np03cs4a220245@heraldcollege.edu.np(Week 9)Tutorial.docx'
aman098@DESKTOP-O7MO5MD:/mnt/c/users/97798/desktop$ mv Swayambhu.txt Barahi.txt
aman098@DESKTOP-O7MO5MD:/mnt/c/users/97798/desktop$ ls
```

8. Create Directory Pokhara in the Desktop and move Bahari.txt of directory Kathmandu in directory Pokhara.

```
aman098@DESKTOP-07MO5MD:/mnt/c/users/97798/desktop$ mkdir Pokhara
aman098@DESKTOP-07MO5MD:/mnt/c/users/97798/desktop$ cd Kathmandu
aman098@DESKTOP-07MO5MD:/mnt/c/users/97798/desktop/Kathmandu$ touch Barahi.txt
aman098@DESKTOP-07MO5MD:/mnt/c/users/97798/desktop/Kathmandu$ mv Barahi.txt ../Pokhara
aman098@DESKTOP-07MO5MD:/mnt/c/users/97798/desktop/Kathmandu$ ls
aman098@DESKTOP-07MO5MD:/mnt/c/users/97798/desktop/Kathmandu$ cd ..
aman098@DESKTOP-07MO5MD:/mnt/c/users/97798/desktop$ cd Pokhara
aman098@DESKTOP-07MO5MD:/mnt/c/users/97798/desktop/Pokhara$ ls
Barahi.txt
aman098@DESKTOP-07MO5MD:/mnt/c/users/97798/desktop/Pokhara$
```

9. What is the command to list all the invisible files and to display the directories in detail?


```
aman098@DESKTOP-07MO5MD:/mnt/c/users/97798/desktop/Pokhara$ touch name.txtaman098@DESKTOP-07MO5MD:/mnt/c/users/97798/desktop/Pokhara$ ls
Barahi.txt  name.txt
aman098@DESKTOP-07MO5MD:/mnt/c/users/97798/desktop/Pokhara$ mv name.txt .name.txt
aman098@DESKTOP-07MO5MD:/mnt/c/users/97798/desktop/Pokhara$ ls
Barahi.txt
aman098@DESKTOP-07MO5MD:/mnt/c/users/97798/desktop/Pokhara$ ls -l
Barahi.txt
aman098@DESKTOP-07MO5MD:/mnt/c/users/97798/desktop/Pokhara$ ls -al
total 8
drwxrwxrwx 1 aman098 aman898 4096 Jan 19 08:15 
drwxrwxrwx 1 aman098 aman898 4096 Jan 19 08:12 
-rwxrwxrwx 1 aman898 aman098    0 Jan 19 08:15 .name.txt
-rwxrwxrwx 1 aman898 aman098    0 Jan 19 08:12 Barahi.txt
aman098@DESKTOP-07MO5MD:/mnt/c/users/97798/desktop/Pokhara$ ls -a
    .name.txt  Barahi.txt
aman098@DESKTOP-07MO5MD:/mnt/c/users/97798/desktop/Pokhara$
```

10. What is the command to make a directory named IPHONE and IPAD and remove the

directory named IPAD?


```
aman098@DESKTOP-07MO5MD:/mnt/c/users/97798/desktop$ mkdir IPHONE
aman098@DESKTOP-07MO5MD:/mnt/c/users/97798/desktop$ mkdir IPAD
aman098@DESKTOP-07MO5MD:/mnt/c/users/97798/desktop$ ls
'(Aman)Quote of the day.png'
'(Tutorial9)np03cs4a220245@heraldcollege.edu.np.pdf'
'(np03cs4a220245@heraldcollege.edu.np)Cover-Letter.pdf'
'(np03cs4a220245@heraldcollege.edu.np)Cyber security.pdf'
'2330473_Aman Kumar Sah_Week8_Report.pdf'
'Aman Kumar Sah_2330473-_Wps05.pdf'
 Barahi.txt
 BlueJ.lnk
'Course structure.png'
 Creators_Community.png
 Gmail.url
'Google Classroom.url'
 IPAD
 IPHONE
 OneNote.lnk
```

11. Create file hck.txt containing text "Herald College Kathmandu" and another file hck1.txt containing text "Sanugaucharan, Naxal" concatenate these two files and give name HCK.txt.

12. Create filename1.txt and filename2.txt in the Desktop and create compressed file new.zip which contains filename1.txt and filename2.txt.

13. Check the permissions for User, group and world for new.zip and set read permission for user, read and write permission for group and read write and execute permission for world.

```
aman098@DESKTOP-07MO5MD:/mnt/c/users/97798/desktop$ ls -1 new.zip
new.zip
aman098@DESKTOP-07MO5MD:/mnt/c/users/97798/desktop$ chmod 467 new.zip
aman098@DESKTOP-07MO5MD:/mnt/c/users/97798/desktop$ ls -1 new.zip
new.zip
aman098@DESKTOP-07MO5MD:/mnt/c/users/97798/desktop$
```

14. Write the command to check your last 10 commands.

```
aman098@DESKTOP-07MO5MD:/mnt/c/users/97798/desktop$ history 10
  385  zip new.zip filename1.txt filename2.txt
  386  ls
  387  copynew.zip
  388  copy new.zip
  389  sudo
  390  ls -1 new.zip
  391  chmod 467 new.zip
  392  ls -1 new.zip
  393  clear
  394  history 10
aman098@DESKTOP-07MO5MD:/mnt/c/users/97798/desktop$
```

15. Write the command to check current user.

```
aman098@DESKTOP-07MO5MD:/mnt/c/users/97798/desktop$ whoa
mi
aman098
aman098@DESKTOP-07MO5MD:/mnt/c/users/97798/desktop$
```

16. Write the command to add user having user name newuser and switch to newuser.

```
aman098@DESKTOP-07MO5MD:/mnt/c/users/97798/desktop$ whoami
aman098
aman098@DESKTOP-07MO5MD:/mnt/c/users/97798/desktop$ sudo adduser newuser
[sudo] password for aman098:
Adding user 'newuser' ...
Adding new group 'newuser' (1001) ...
Adding new user 'newuser' (1001) with group 'newuser' ...
Creating home directory '/home/newuser' ...
Copying files from '/etc/skel' ...
New password:
Retype new password:
passwd: password updated successfully
Changing the user information for newuser
Enter the new value, or press ENTER for the default
        Full Name []: Aman Kumar
        Room Number []: 2
        Work Phone []: 9999
        Home Phone []: 0000
        Other []: 888
Is the information correct? [Y/n] y
aman098@DESKTOP-07MO5MD:/mnt/c/users/97798/desktop$ sudo su newuser
newuser@DESKTOP-07MO5MD:/mnt/c/users/97798/desktop$ whoami
newuser
newuser@DESKTOP-07MO5MD:/mnt/c/users/97798/desktop$
```

17. Create the following directories in and paste your result here.

```
uttam@uttam-VirtualBox:~/Desktop/NEPAL$ tree
├── Provience1
│   └── Capital
│       └── Biratnagar.txt
├── Provience2
│   └── Capital
│       └── Janakpur.txt
├── Provience3
│   └── Capital
│       └── Hetauda.txt
├── Provience4
│   └── Capital
│       └── Pokhara.txt
├── Provience5
│   └── Capital
│       └── Deukhuri.txt
├── Provience6
│   └── Capital
│       └── Birendranagar.txt
└── Provience7
    └── Capital
        └── Mahendranagar.txt

14 directories, 7 files
uttam@uttam-VirtualBox:~/Desktop/NEPAL$
```

```
aman098@DESKTOP-O7MO5MD:/mnt/c/users/97798/desktop/Nepal$ sudo apt-get install tree
[sudo] password for aman098:
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
E: Unable to locate package tree
aman098@DESKTOP-O7MO5MD:/mnt/c/users/97798/desktop/Nepal$ sudo apt update
```