

ASSIGNMENT - 01

1. List all the files and directories

`ls`

Observation: Lists all files and directories in the current location.

2. Check system date and time

`date`

Observation: Displays the current system date and time.

3. Create a Parent directory called Sports

`mkdir Sports`

Observation: Creates a new directory named "Sports".

4. Create text files called Team1.txt, Team2.txt, and Team3.txt in the Sports directory

`touch Sports/Team1.txt Sports/Team2.txt Sports/Team3.txt`

Observation: Creates empty text files named Team1.txt, Team2.txt, and Team3.txt in the Sports directory.

5. Create a sub-directory Cricket in Sports directory

`mkdir Sports/Cricket`

Observation: Creates a new sub-directory named "Cricket" inside the "Sports" directory.

6. Create a sub-directory Hockey in Sports directory

`mkdir Sports/Hockey`

Observation: Creates a new sub-directory named "Hockey" inside the "Sports" directory.

7. Create a sub-directory Football in Sports directory

```
mkdir Sports/Football
```

Observation: Creates a new sub-directory named "Football" inside the "Sports" directory.

8. Rename the directory Hockey to Badminton

```
mv Sports/Hockey Sports/Badminton
```

Observation: Renames the "Hockey" directory to "Badminton".

9. Create one text file Sample.txt in Badminton, Football, and Cricket sub-directories

```
touch Sports/Badminton/Sample.txt Sports/Football/Sample.txt  
Sports/Cricket/Sample.txt
```

Observation: Creates an empty text file named "Sample.txt" in the Badminton, Football, and Cricket sub-directories.

10. Move to Badminton directory and change the name of Sample.txt to Badminton Team.Txt

```
cd Sports/Badminton  
mv Sample.txt "Badminton Team.Txt"  
cd ..
```

Observation: Changes the directory to "Badminton", renames "Sample.txt" to "Badminton Team.Txt", and then moves back to the Sports directory.

11. Display the number of lines in Team1.txt

```
wc -l Sports/Team1.txt
```

Observation: Counts and displays the number of lines in "Team1.txt". The expected output is 0 if the file is empty.

12. Display the first 3 lines of Team2.txt

```
head -n 3 Sports/Team2.txt
```

Observation: Displays the first 3 lines of "Team2.txt". No output if the file is empty.

13. Display the concatenated contents from the files Team2.txt and Team3.txt

```
cat Sports/Team2.txt Sports/Team3.txt
```

Observation: Concatenates and displays the contents of "Team2.txt" and "Team3.txt". No output if both files are empty.

14. Display the number of lines in Team1.txt

```
wc -l Sports/Team1.txt
```

Observation: Re-checks the number of lines in "Team1.txt", should still be 0 if unchanged.

15. Remove all the text files in Sports directory

```
rm Sports/Team1.txt Sports/Team2.txt Sports/Team3.txt
```

Observation: Removes "Team1.txt", "Team2.txt", and "Team3.txt" from the Sports directory.

16. Copy all the contents of Badminton to another directory Game

```
mkdir Sports/Game
```

```
cp -r Sports/Badminton/* Sports/Game/
```

Observation: Copies all the contents of the "Badminton" directory into a new directory named "Game".

17. Remove the Badminton directory

```
rm -r Sports/Badminton
```

Observation: Removes the "Badminton" directory and its contents.
