Manage Files with Linux

Project description

In this scenario, you need to ensure that the `/home/analyst` directory is properly organized. You have to make a few changes to the `/home/analyst` directory and the files it contains. You also have to edit a file to record the changes or updates you make to the directory.

The `/home/analyst` directory contains the following subdirectories and files:

```
home
└── analyst
    ├── notes
    │   ├── Q3patches.txt
    │   └── tempnotes.txt
    ├── reports
    │   ├── Q1patches.txt
    │   └── Q2patches.txt
    └── temp
```

You need to modify the `/home/analyst` directory to the following directory and file structure:

```
home
└── analyst
    ├── logs
    ├── notes
    │   └── tasks.txt
    └── reports
        ├── Q1patches.txt
        └── Q2patches.txt
        └── Q3patches.txt
```

Create a new directory

First, create a dedicated subdirectory called `logs`, which will be used to store all future log files.

```
analyst@44ba2e7bec73:~$ mkdir logs
analyst@44ba2e7bec73:~$ ls
logs   notes   reports   temp
analyst@44ba2e7bec73:~$ []
```

- I used the `mkdir` command to create a new subdirectory called `logs` in the `/home/analyst` directory.
- The command `ls` is to list the contents of the `/home/analyst` directory to confirm that you've successfully created the new `logs` subdirectory. The output should list the original three directories and the new `logs` subdirectory `logs notes reports temp`.

Remove a directory

Second task is to remove the `temp` directory, as it will no longer be placing items in it.

```
analyst@44ba2e7bec73:~$ rmdir temp
analyst@44ba2e7bec73:~$ ls
logs   notes   reports
analyst@44ba2e7bec73:~$ []
```

- I use the `rmdir` command to remove the `/home/analyst/temp` directory.
- The `ls` command is to list the content of the `/home/analyst` directory to confirm that I have removed the `temp` subdirectory. The output should show that the `temp` directory is no longer listed.

Move a file

The `Q3patches.txt` file contains notes taken on third-quarter patches and is now in the correct reporting format. You need to move the `Q3patches.txt` file from the `notes` directory to the `reports` directory.

```
analyst@44ba2e7bec73:~$ cd /home/analyst/notes
analyst@44ba2e7bec73:~/notes$ mv Q3patches.txt /home/analyst/reports/
analyst@44ba2e7bec73:~/notes$ ls /home/analyst/reports
Q1patches.txt  Q3patches.txt
Q2patches.txt
analyst@44ba2e7bec73:~/notes$ []
```

- I used the `cd` command to navigate to the `/home/analyst/notes` directory.
- The `mv` command is to move the `Q3patches.txt` file from the `/home/analyst/notes` directory to the `/home/analyst/reports` directory.
- The command `ls` is to list the contents of the `/home/analyst/reports` directory to confirm that I have moved the file successfully. The output should show the list contents of the `reports` directory, it should show that three quarterly report files are now in the `reports` directory: `Q1patches.txt Q2patches.txt Q3patches.txt`.

Remove a file

Next is to delete an unused file called `tempnotes.txt` from the `/home/analyst/notes` directory.

```
analyst@44ba2e7bec73:~/notes$ rm tempnotes.txt
analyst@44ba2e7bec73:~/notes$ ls
```

- I used the `rm` command to remove the `tempnotes.txt` file from the `/home/analyst/notes` directory.
- The `ls` command should list the contents of the `/home/analyst/notes` directory to confirm that the file has been removed.
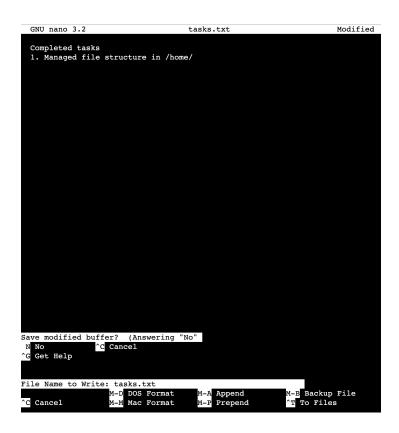
Create a new file

Next is to create a file named `tasks.txt` in the `/home/analyst/notes` directory that will use to document completed tasks.

```
analyst@44ba2e7bec73:~/notes$ touch tasks.txt
analyst@44ba2e7bec73:~/notes$ ls
tasks.txt
analyst@44ba2e7bec73:~/notes$
```

- I used the `touch` command to create an empty file called `tasks.txt` in the `/home/analyst/notes` directory.
- The `ls` command should show the contents of the `/home/analyst/notes` directory to confirm that a file called `tasks.txt` should now exist in the notes directory.

Edit a file

Next is to edit the `tasks.txt` file and add a note describing the tasks I've completed.

```
  GNU nano 3.2                       tasks.txt                      Modified

  Completed tasks
  1. Managed file structure in /home/




















  Save modified buffer?  (Answering "No"
   N  No              ^C  Cancel
  ^G  Get Help




  File Name to Write: tasks.txt
                        M-D  DOS Format    M-A  Append       M-B  Backup File
  ^C  Cancel            M-M  Mac Format    M-P  Prepend      ^T  To Files
```

- I used the `nano` command to open the file `tasks.txt` in the `/home/analyst/notes` directory.
- Use the command `CTRL+X` to exit the nano text editor. Press `Y` to confirm that you want to save the new data to your file. Press `ENTER` to confirm that File Name to Write is `tasks.txt`.
- The cat command should display the contents of the `tasks.txt` file to confirm that it contains the updated task details. The file should contain the contents of the `tasks.txt` file that I add and saved in previous steps:

```
analyst@44ba2e7bec73:~/notes$ cat tasks.txt
  Completed tasks
  1. Managed file structure in /home/analyst

analyst@44ba2e7bec73:~/notes$ 
```