CYSE 695 – Linux for Cybersecurity

Module 3 | File System Management

Total: 100 Points

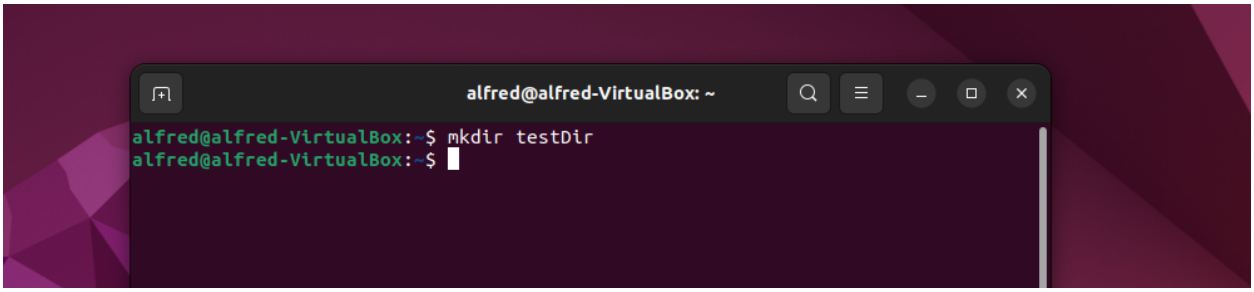
Name: Alfred Acquaye

Directions: Practice the following tasks in Linux VM – Ubuntu using various Linux commands for file management. Insert screenshots where applicable. Upload completed document in Canvas.

Task 1: Linux File System Management

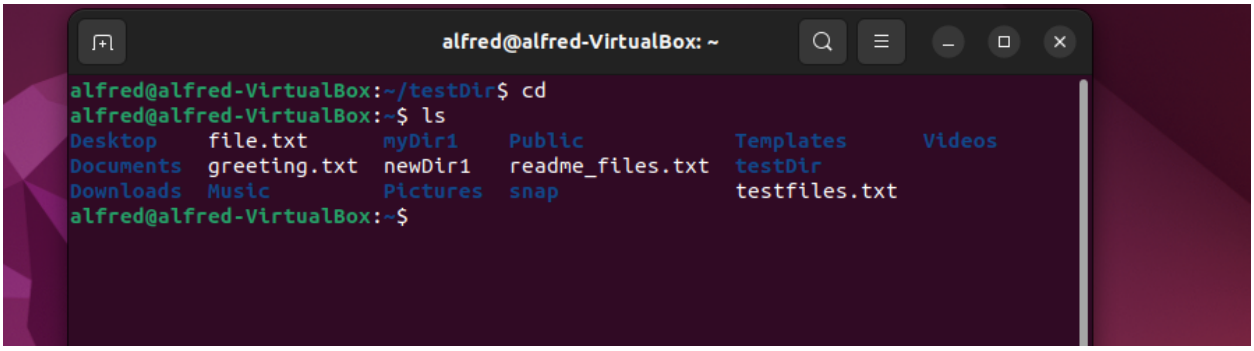
- Create a directory named "**testDir**" in your home directory. Upload the screenshot for this step after executing the command.

  [Add screenshot here]



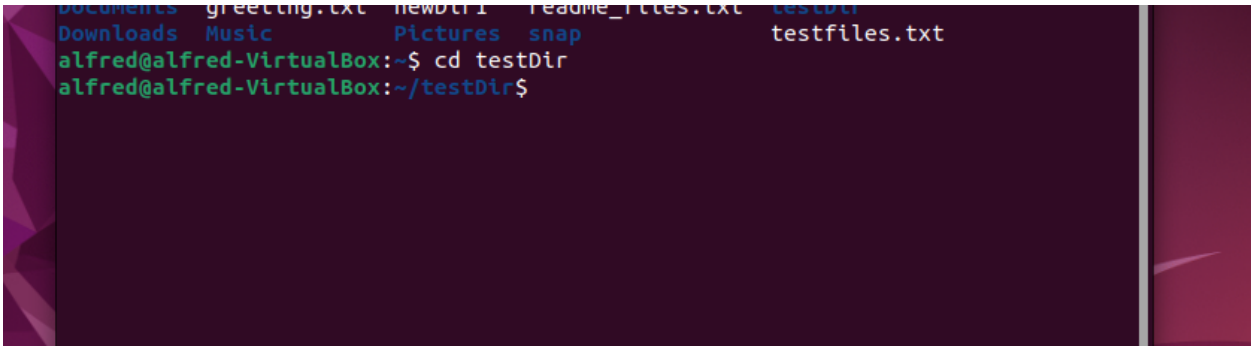
- List the contents of your home directory to confirm the creation of the "**testDir**" directory. Upload the screenshot for this step after executing the command.

  [Add screenshot here]



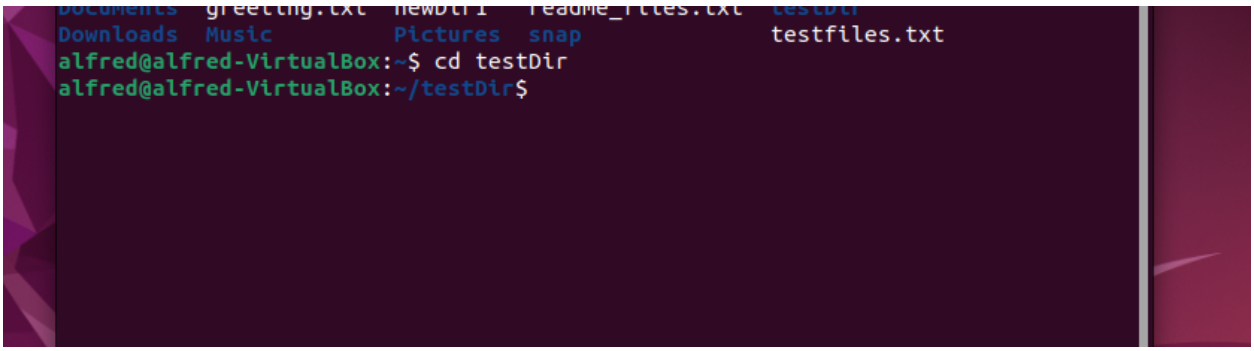
- Change your working directory to "**testDir**" using the cd command. Upload the screenshot for this step after executing the command.

  [Add screenshot here]



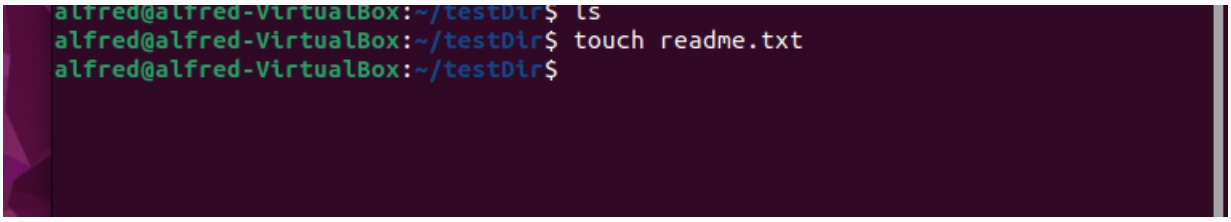
- List the contents of "**testDir**". Upload the screenshot for this step after executing the command. Upload the screenshot for this step after executing the command.

  [Add screenshot here]



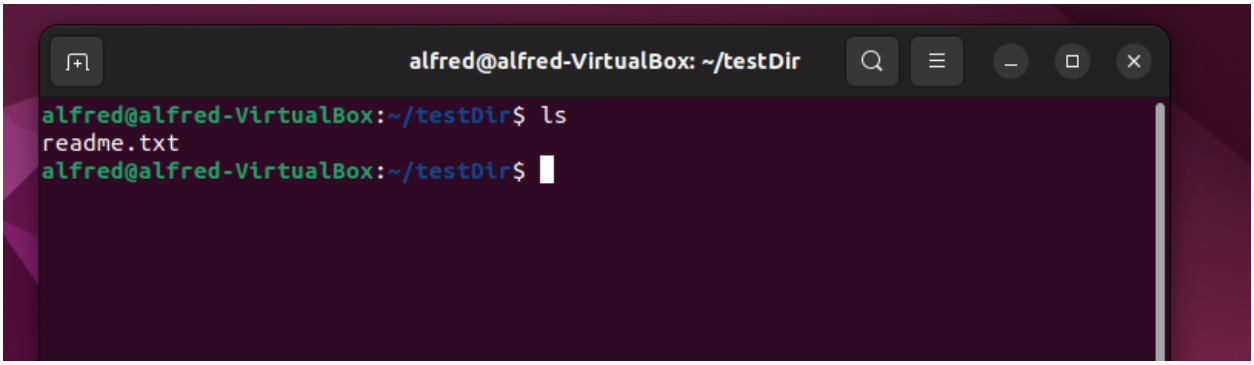
- Create an empty text file named "**readme.txt**" within the "**tesDir**" directory using the **touch** command. Upload the screenshot for this step after executing the command.

  [Add screenshot here]



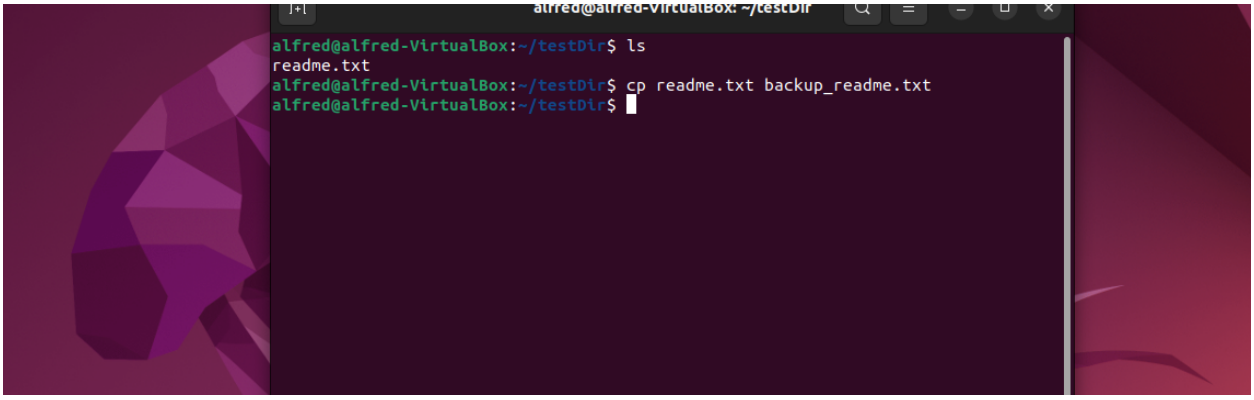
- Verify the creation of the "**readme.txt**" file. Upload the screenshot for this step after executing the command.

  [Add screenshot here]



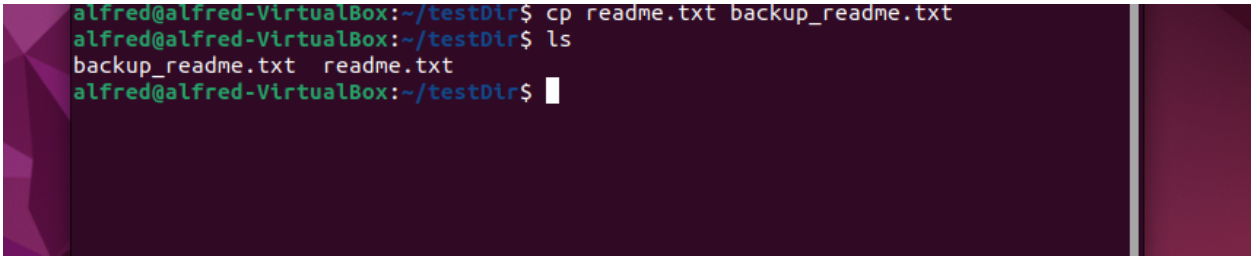
- Create a copy of the "**readme.txt**" file and name it "**backup_readme.txt**" using the **cp** command. Upload the screenshot for this step after executing the command.

  [Add screenshot here]



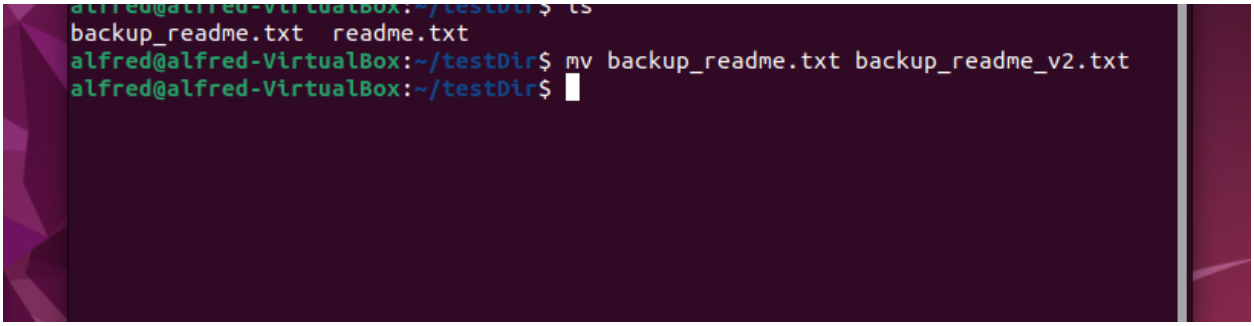
- Confirm the existence of the copied file. Upload the screenshot for this step after executing the command.

  [Add screenshot here]



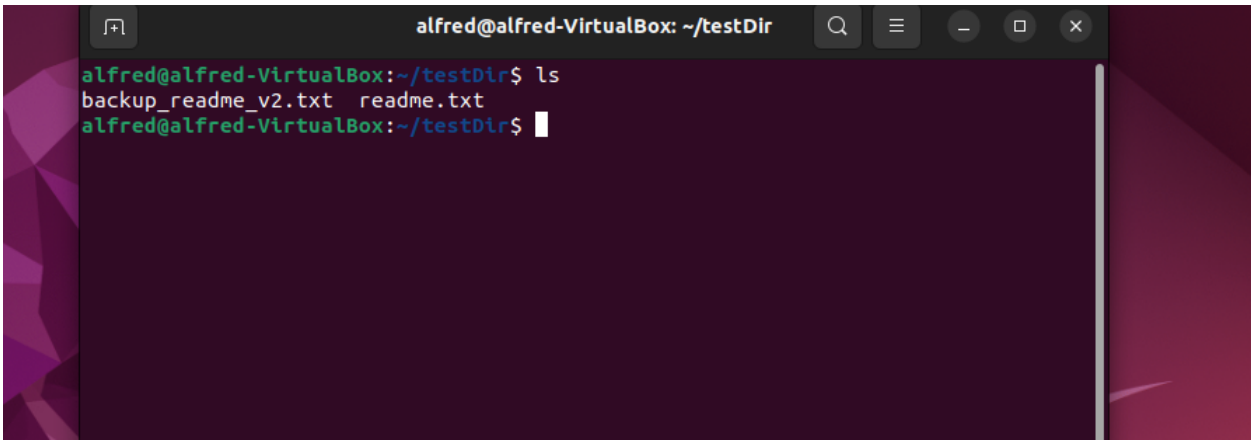
- Rename the "**backup_readme.txt**" file to "**backup_readme_v2.txt**" using the **mv** command. Upload the screenshot for this step after executing the command.

  [Add screenshot here]



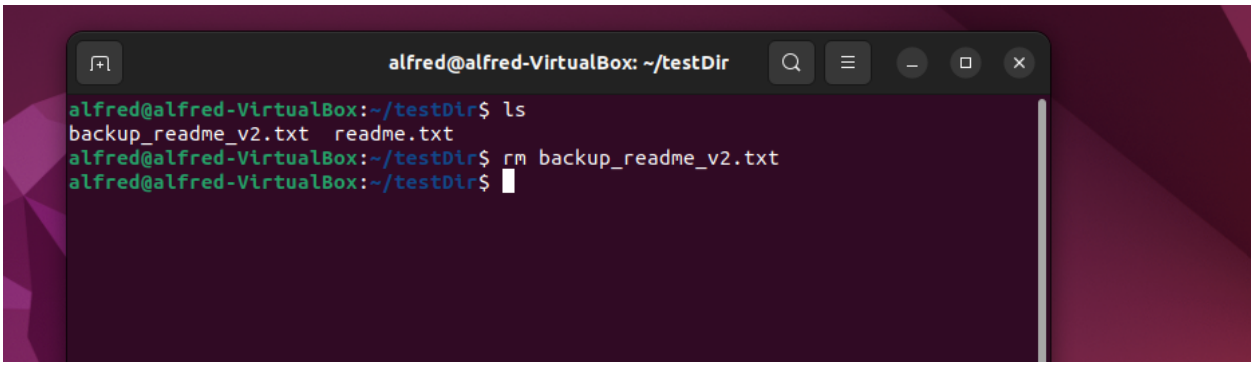
- Check that the file has been successfully renamed. Upload the screenshot for this step after executing the command.

  [Add screenshot here]



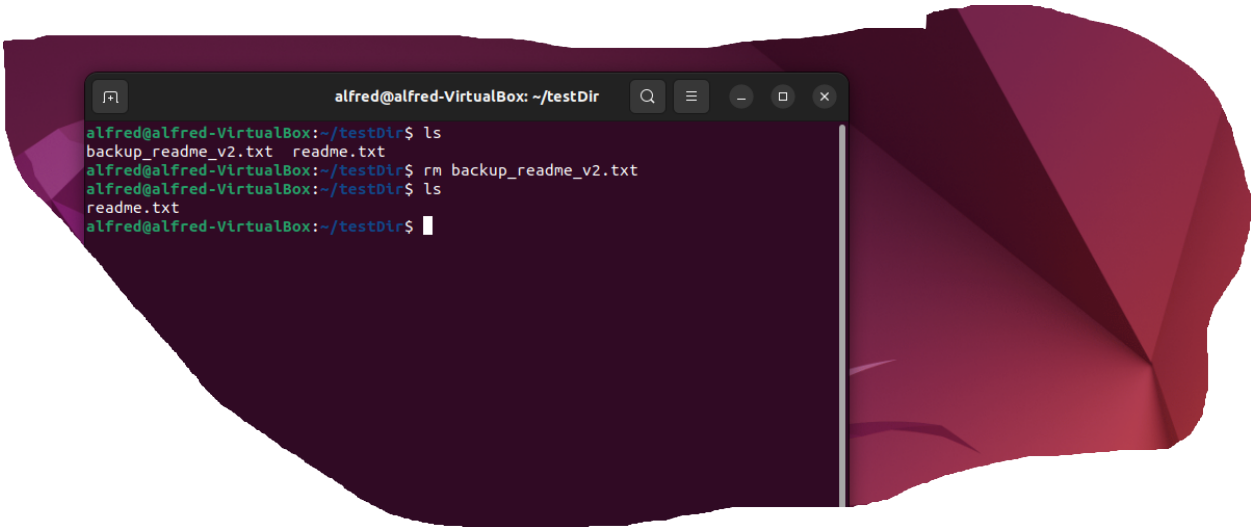
- Remove the "**backup_readme_v2.txt**" file using the **rm** command. Upload the screenshot for this step after executing the command.

  [Add screenshot here]



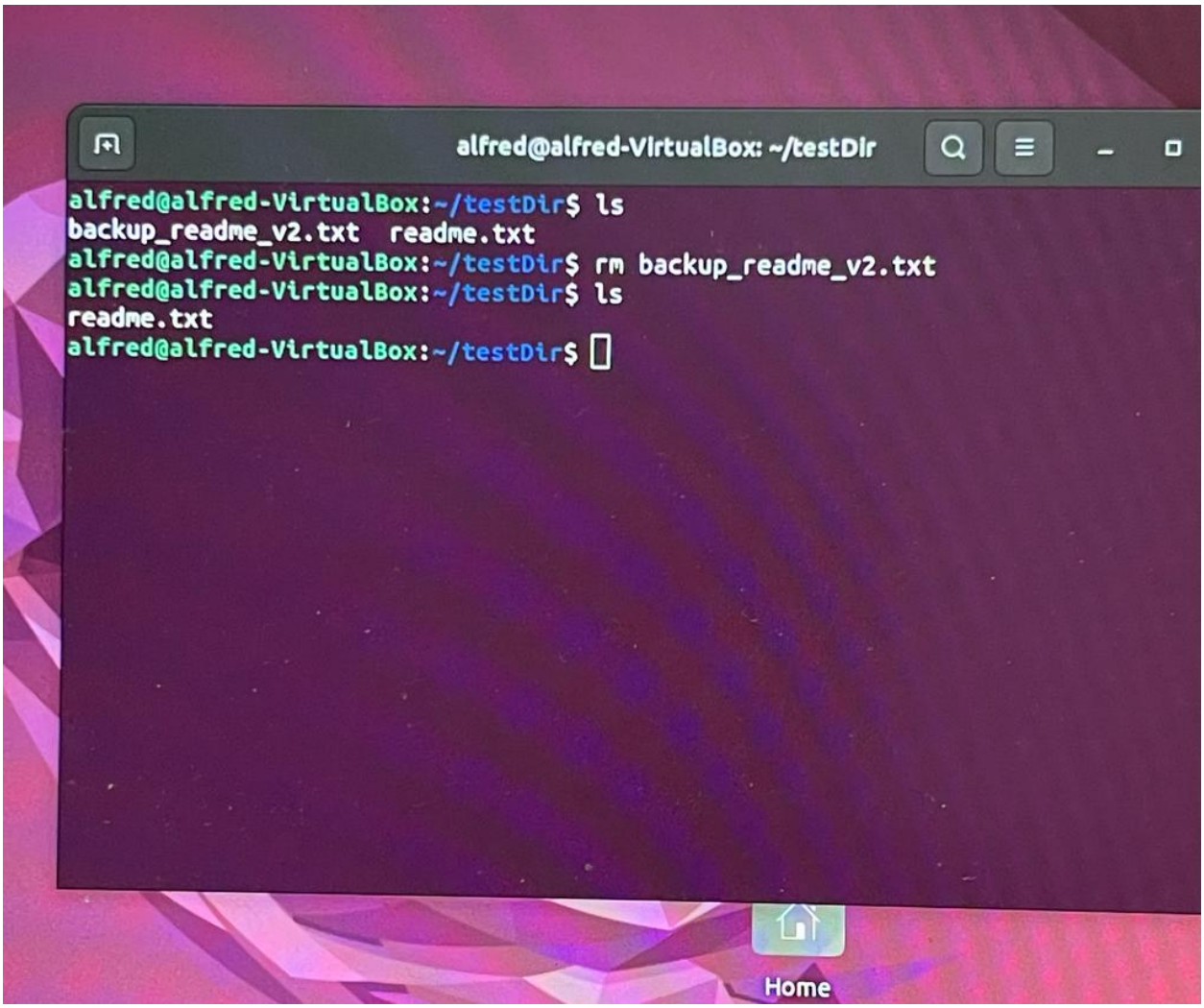
- Remove the "**testDir**" directory and its contents using the appropriate **rm** or **rmdir** command. Upload the screenshot for this step after executing the command.

  [Add screenshot here]



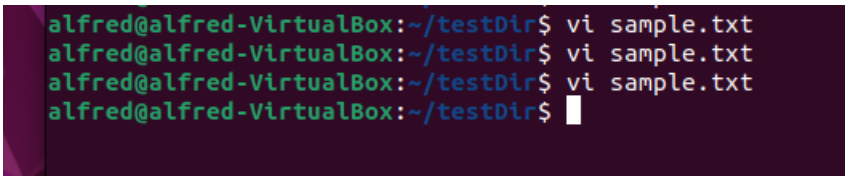
- Verify that both the file and directory have been deleted. Upload the screenshot for this step after executing the command.

  [Add screenshot here]



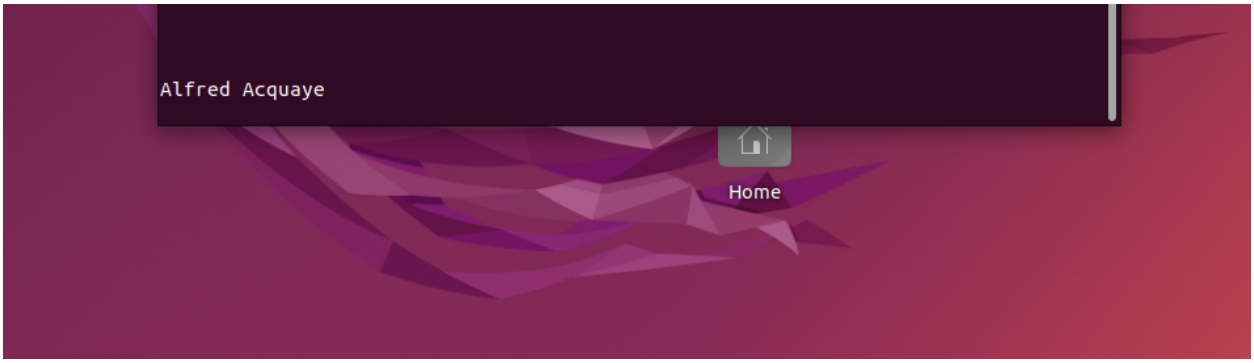
- Create a new text file named “**sample.txt**" using the **vi**/**vim** editor. Upload the screenshot for this step after executing the command.

  [Add screenshot here]



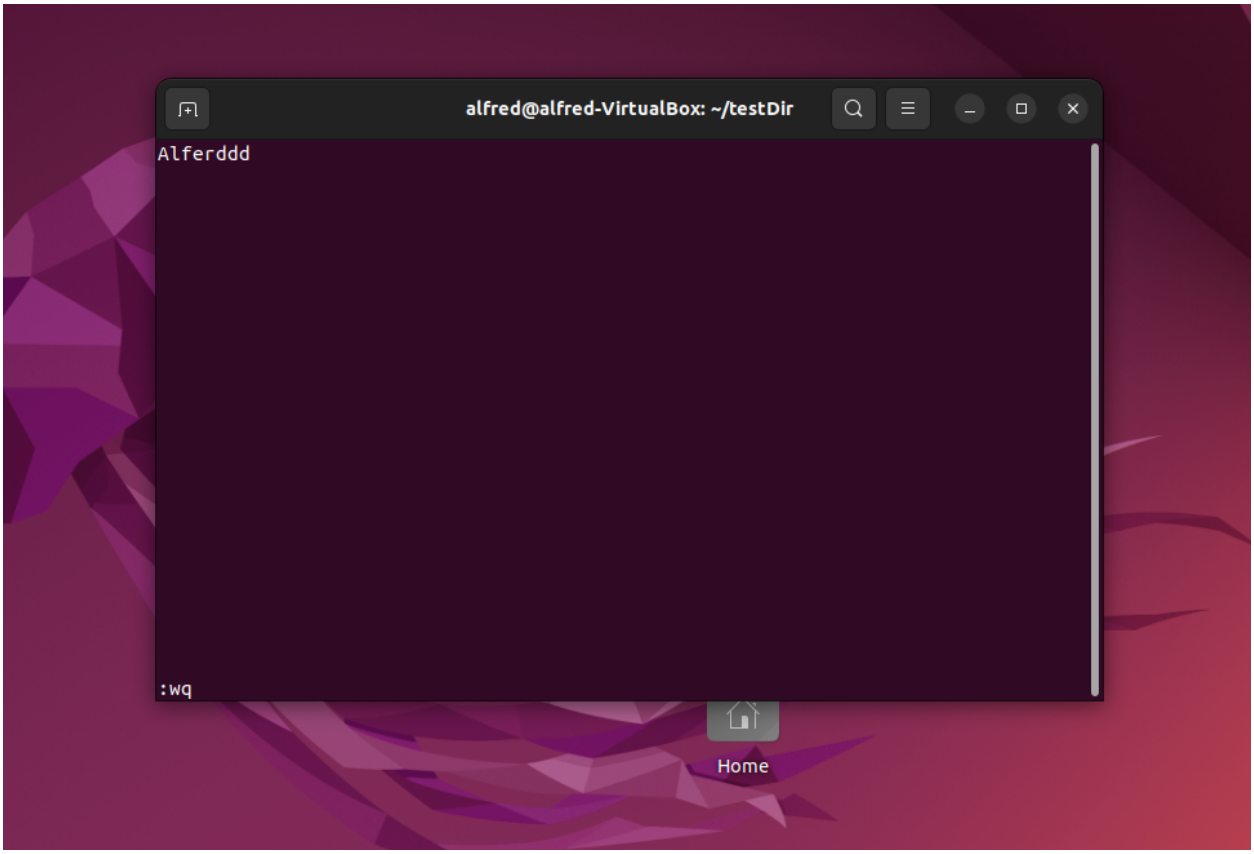
- Add “your name” as the content to the file [Hit the command letter " **i** " to be in insert mode to insert/type any text. Upload the screenshot for this step after executing the command.

  [Add screenshot here]



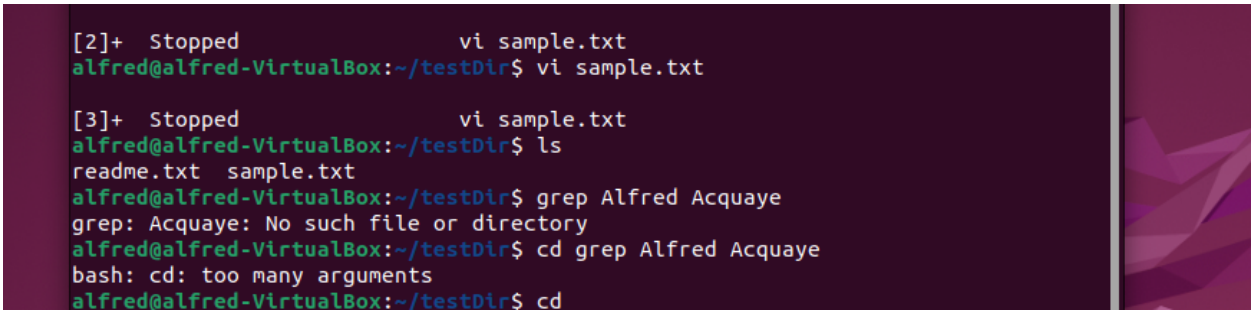
- Use Linux command for vi editor to save your changes and exit the vi editor. Upload the screenshot for this step after executing the command.

  [Add screenshot here]



- Use the **grep** command to search for your name within "**cd**." Upload the screenshot for this step after executing the command.

  [Add screenshot here]



- Open the file “**sample.txt**” using vi editor and hit the command " **i** " to be in insert mode to type some text " **Cybersecurity** ". Upload the screenshot for this step after executing the command.

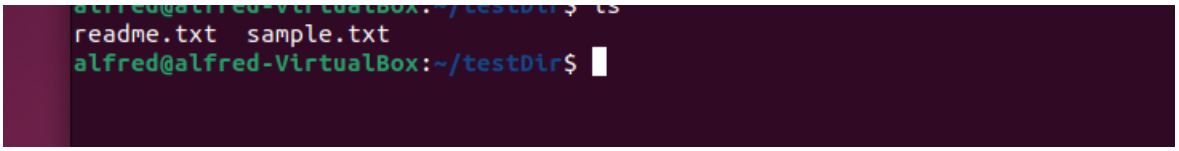
  [Add screenshot here]

- Save the file using " **:wq** "**.** Upload the screenshot for this step after executing the command. Upload the screenshot for this step after executing the command.

  [Add screenshot here]

- Verify the creation of the "**sample.txt**" file. Upload the screenshot for this step after executing the command.

  [Add screenshot here]



Grading Criteria

Task 1: Linux File System Management **[20 x 5 Points = 100 Points]**