**1. Creating and Renaming Files/Directories**

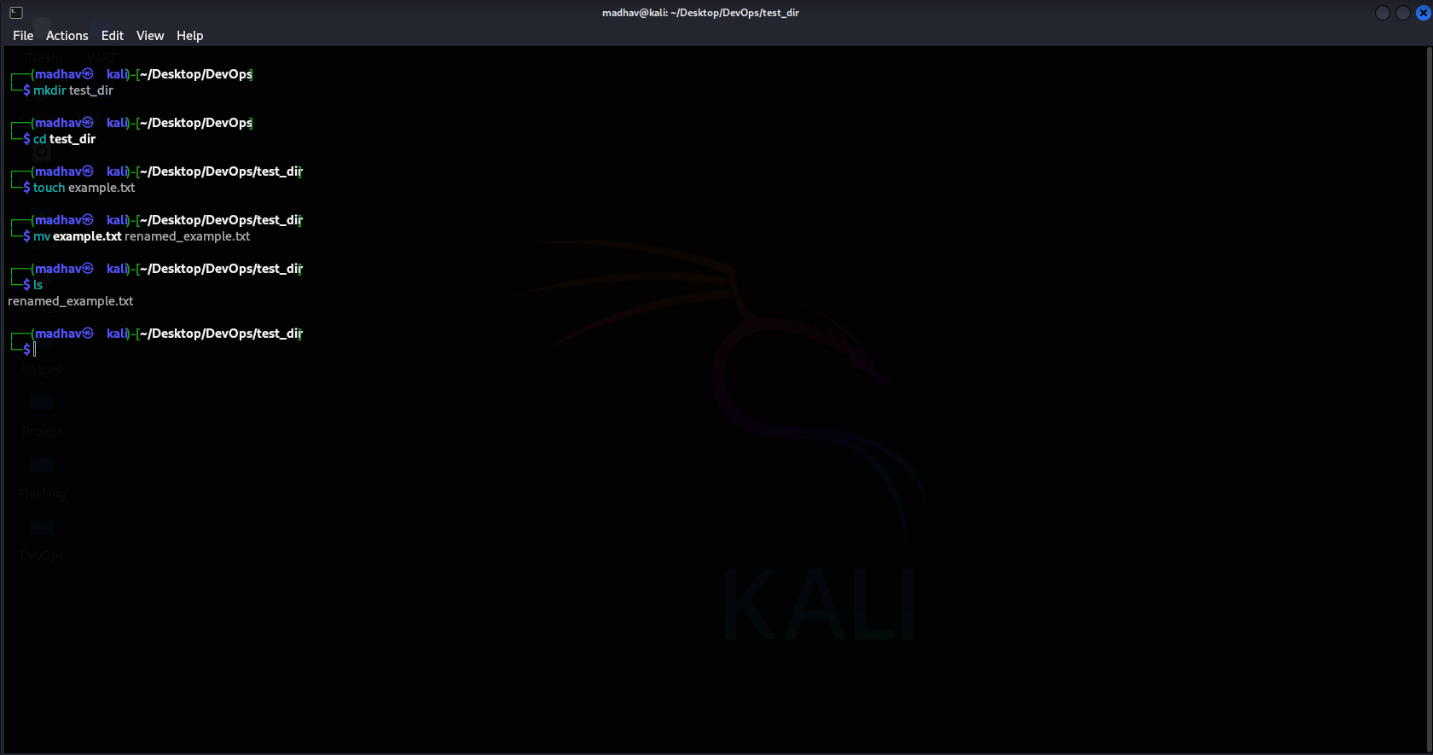
**Create a directory named test\_dir using mkdir.**

**Inside test\_dir, create an empty file called example.txt.**

**Rename example.txt to renamed\_example.txt using mv**

* mkdir creates a directory.
* touch makes an empty file.
* mv renames the file.

Screenshot:



**2. Viewing File Contents**

**Use cat to display the contents of /etc/passwd.**

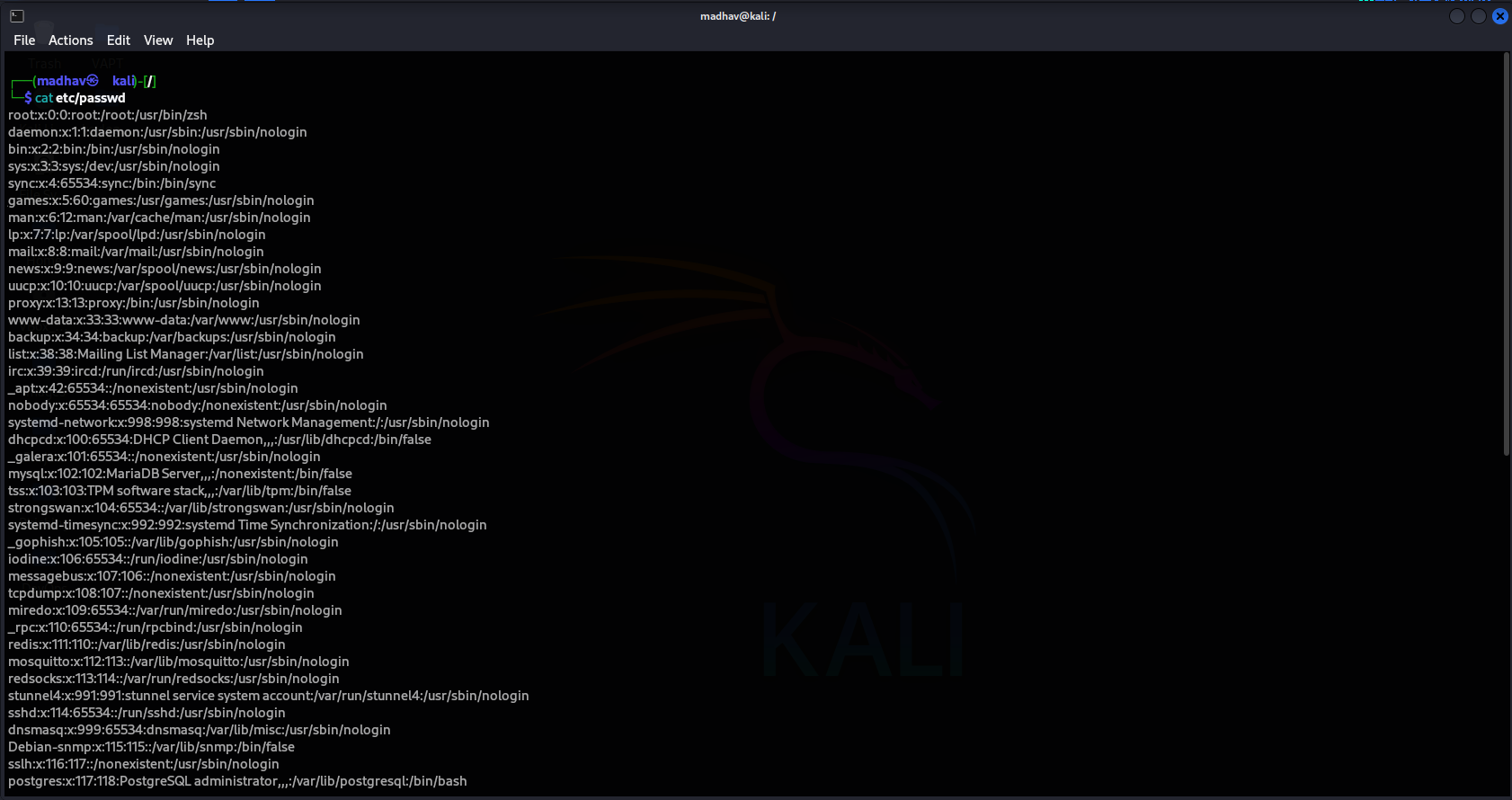
**Display only the first 5 lines of /etc/passwd using head.**

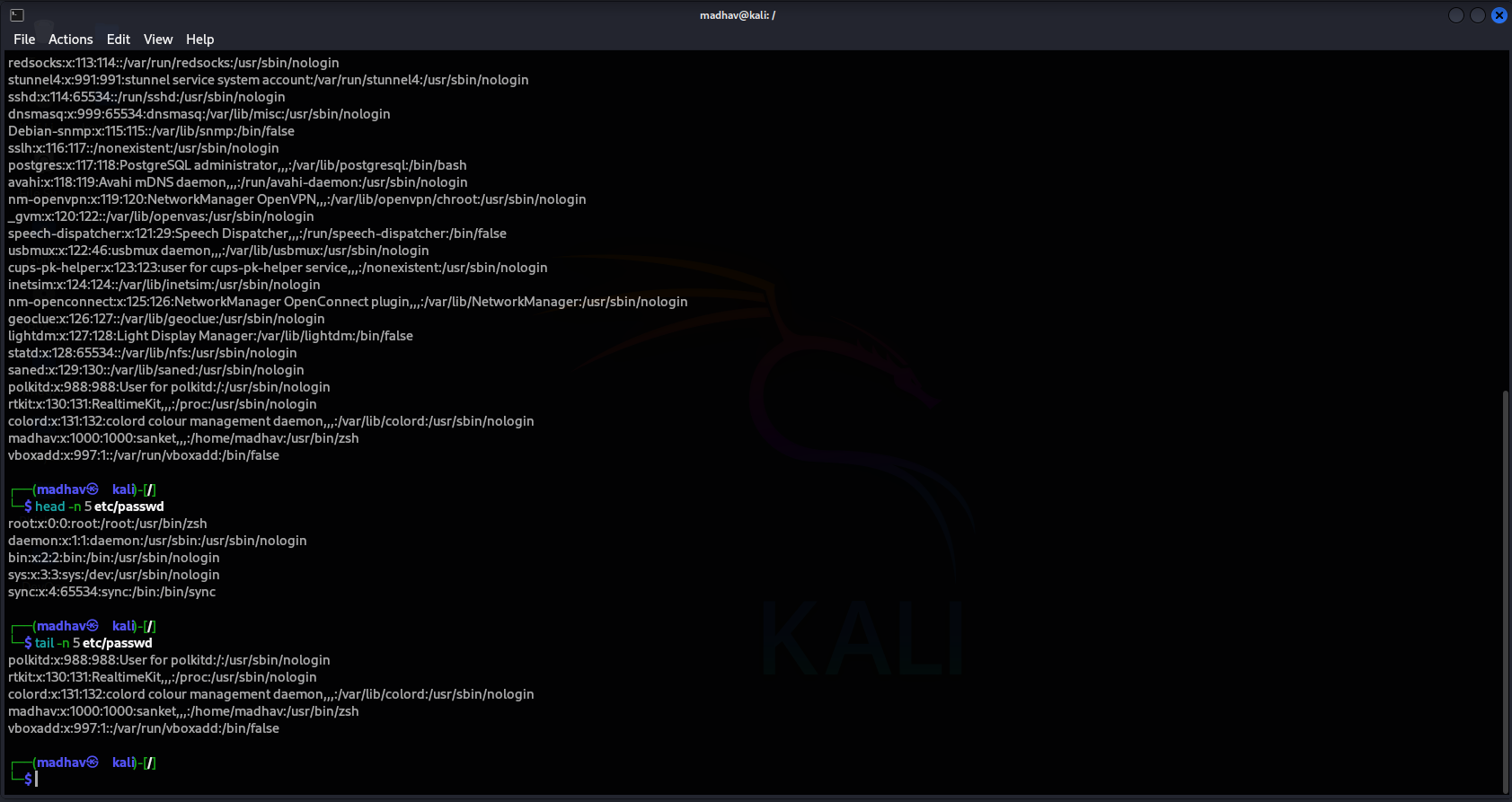
**Display only the last 5 lines of /etc/passwd using tail.**

Explanation:

* cat displays the whole file.
* head shows the first 5 lines.
* tail shows the last 5 lines.

Screenshot:





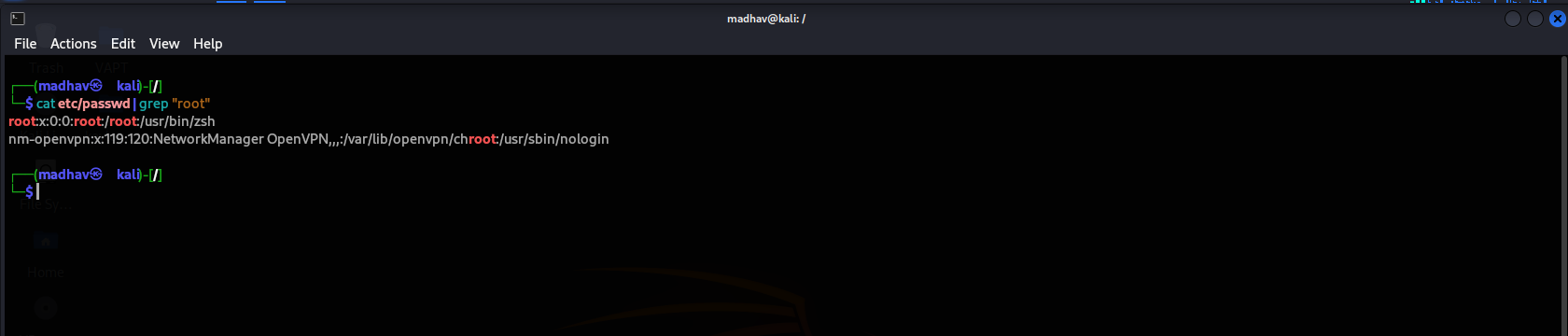
**3.Searching for Patterns**

**Use grep to find all lines containing the word "root" in /etc/passwd.**

Explanation:

Searches for the word "root" in each line of /etc/passwd.

Screenshot:



**4. Zipping and Unzipping**

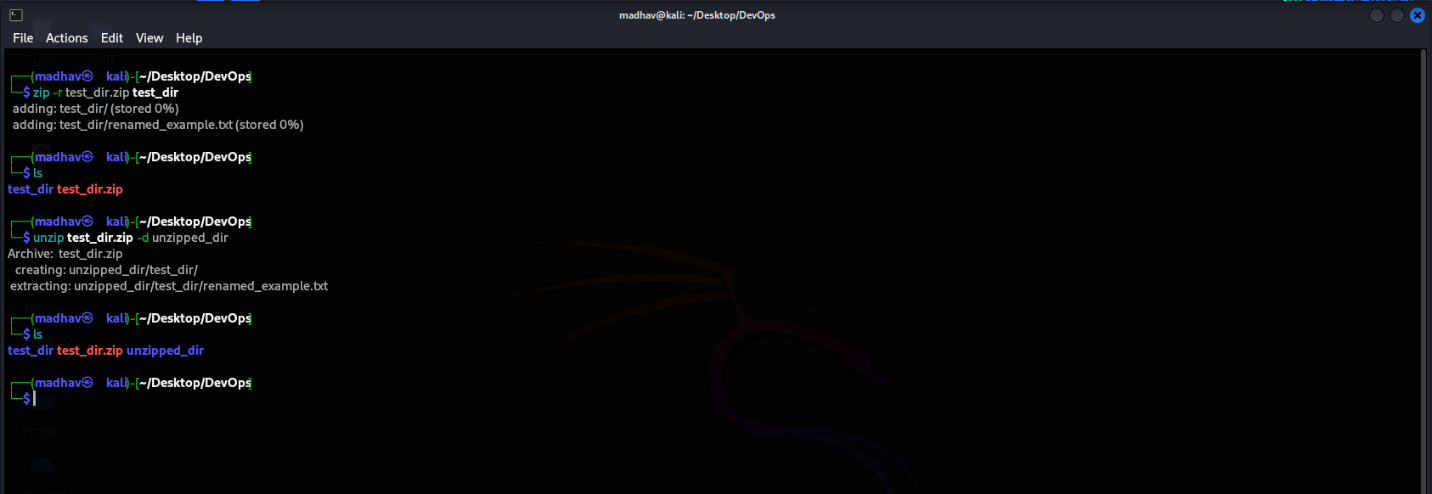
**Compress the test\_dir directory into a file named test\_dir.zip using zip.**

**Unzip test\_dir.zip into a new directory named unzipped\_dir.**

Explanation:

* zip -r recursively zips a directory.
* unzip -d extracts it to a new folder.

Screenshot:



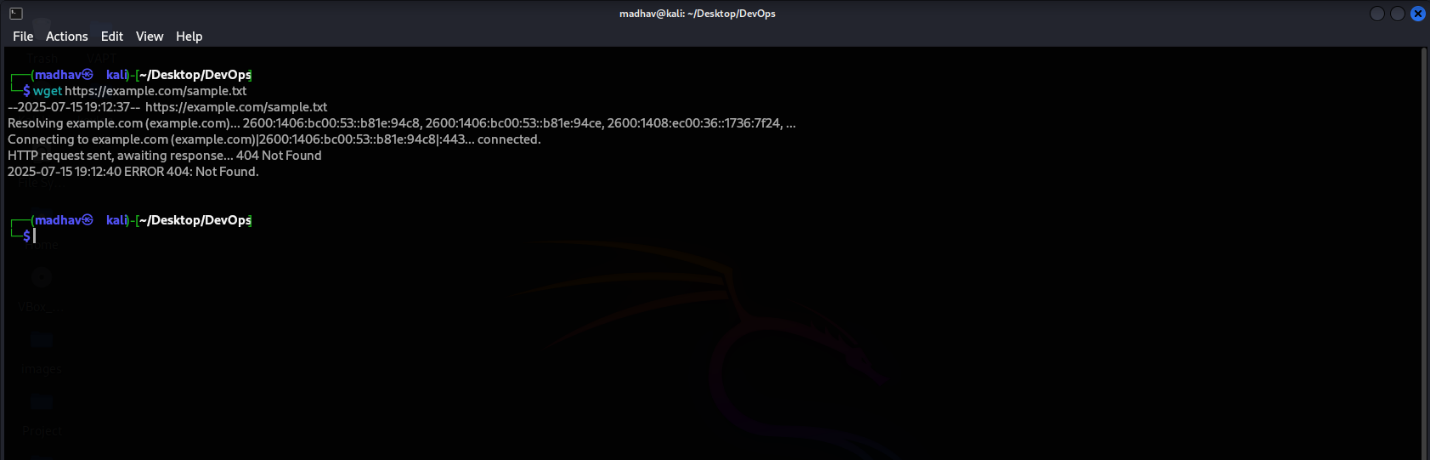
**5. Downloading Files**

**Use wget to download a file from a URL (e.g.,** [**https://example.com/sample.txt**](https://example.com/sample.txt)**).**

Explanation:

* Wget: Downloads file from the specified URL.

Screenshot:



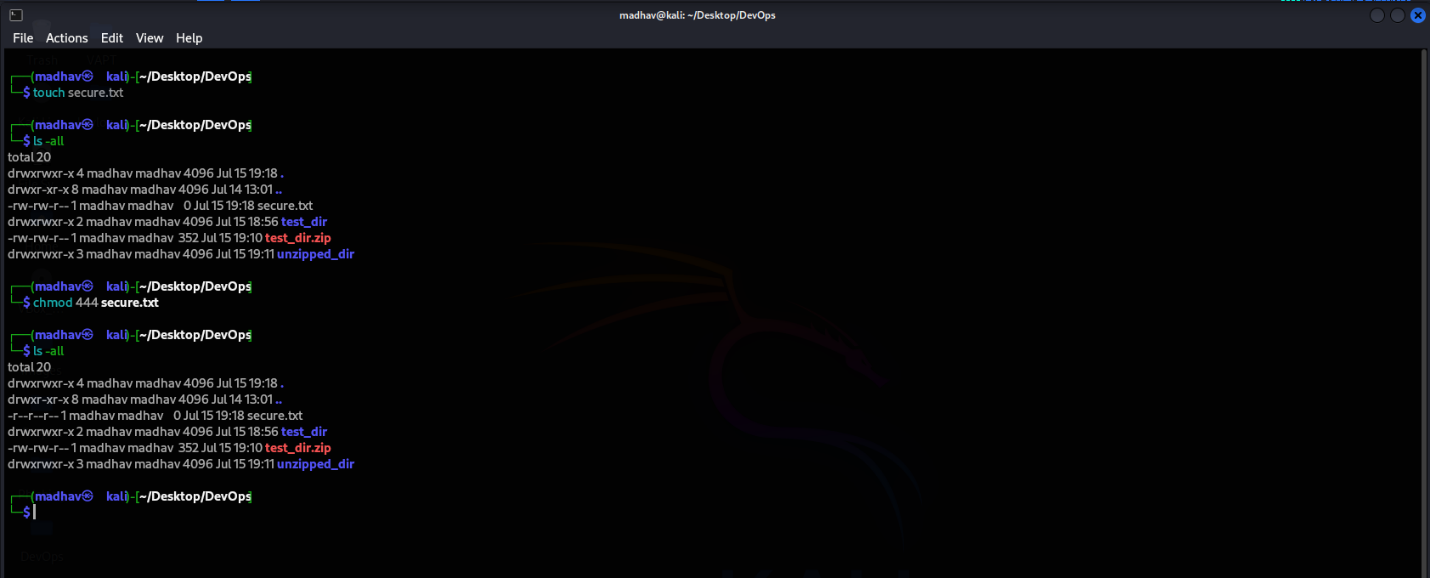
**6. Changing Permissions**

**Create a file named secure.txt and change its permissions to read-only for everyone using chmod.**

Explanation:

* touch makes an empty file named secure.txt.
* Makes the file read-only (4) for user, group, and others.

Screenshot:



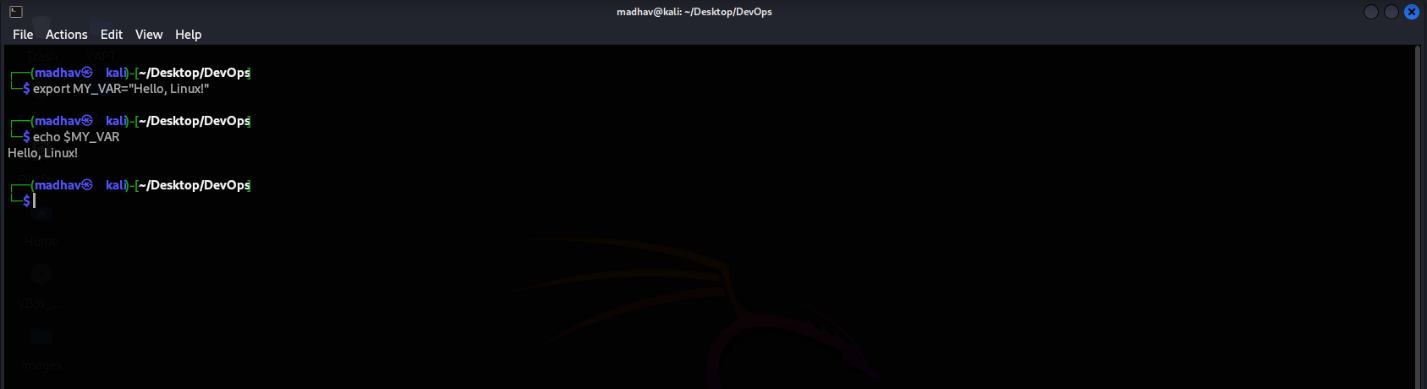
7. Working with Environment Variables

Use export to set a new environment variable called MY\_VAR with the value "Hello, Linux!".

Explanation:

* Creates an environment variable MY\_VAR.

Screenshot:



GitHub Repo:

**Submission Guidelines -:** Attach Screenshots or command along with explanation and submit in doc(google doc or microsoft doc) format also attach github repo link