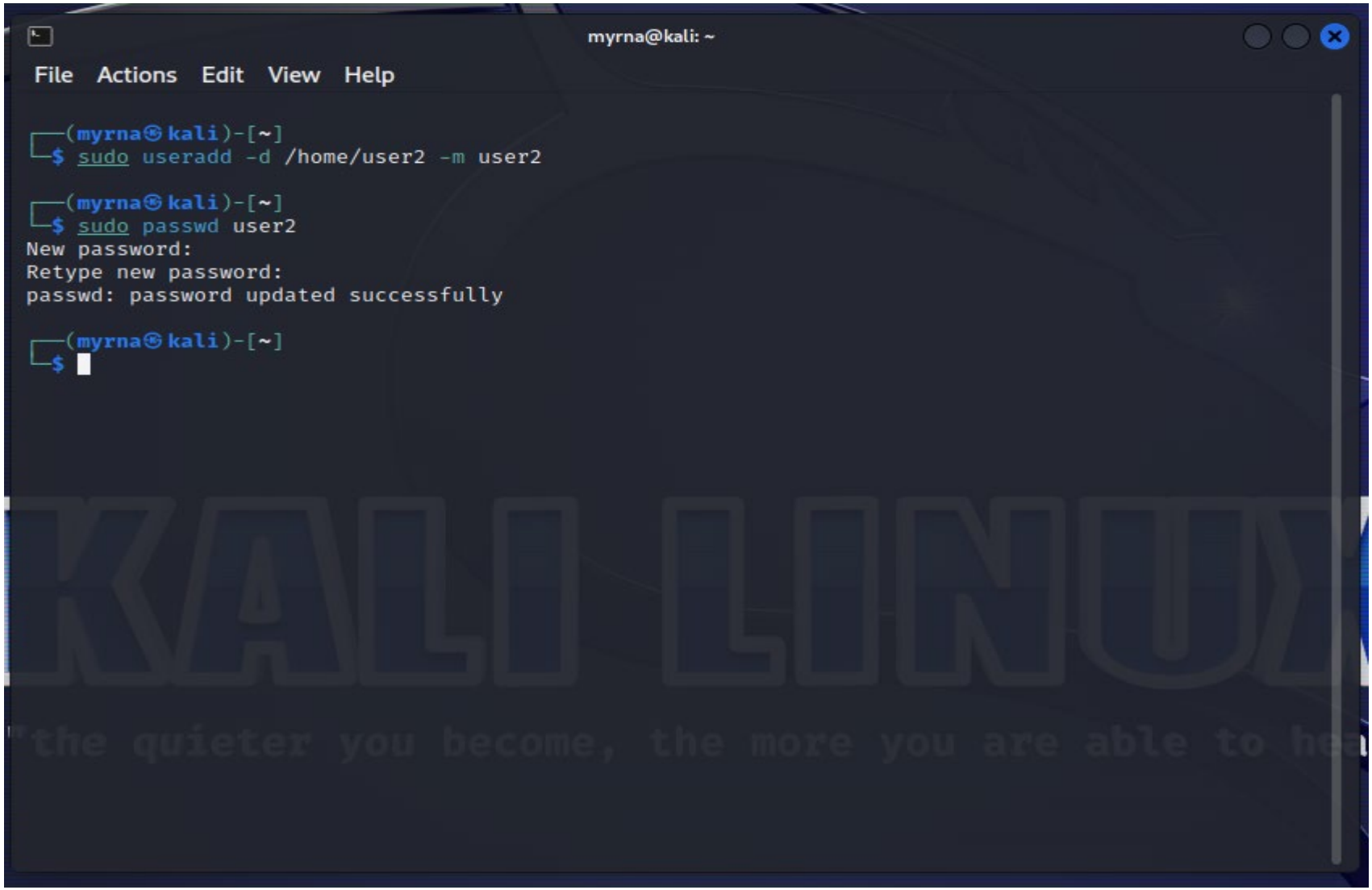
Myrna E. Santiago

10/02/2023

CYSE 270 _ 20306

Step 1.1 Using **sudo useradd -d /home/user1 -m user1**, user 1 was created. Using **sudo passwd user1**, password was set to **umbrella.**

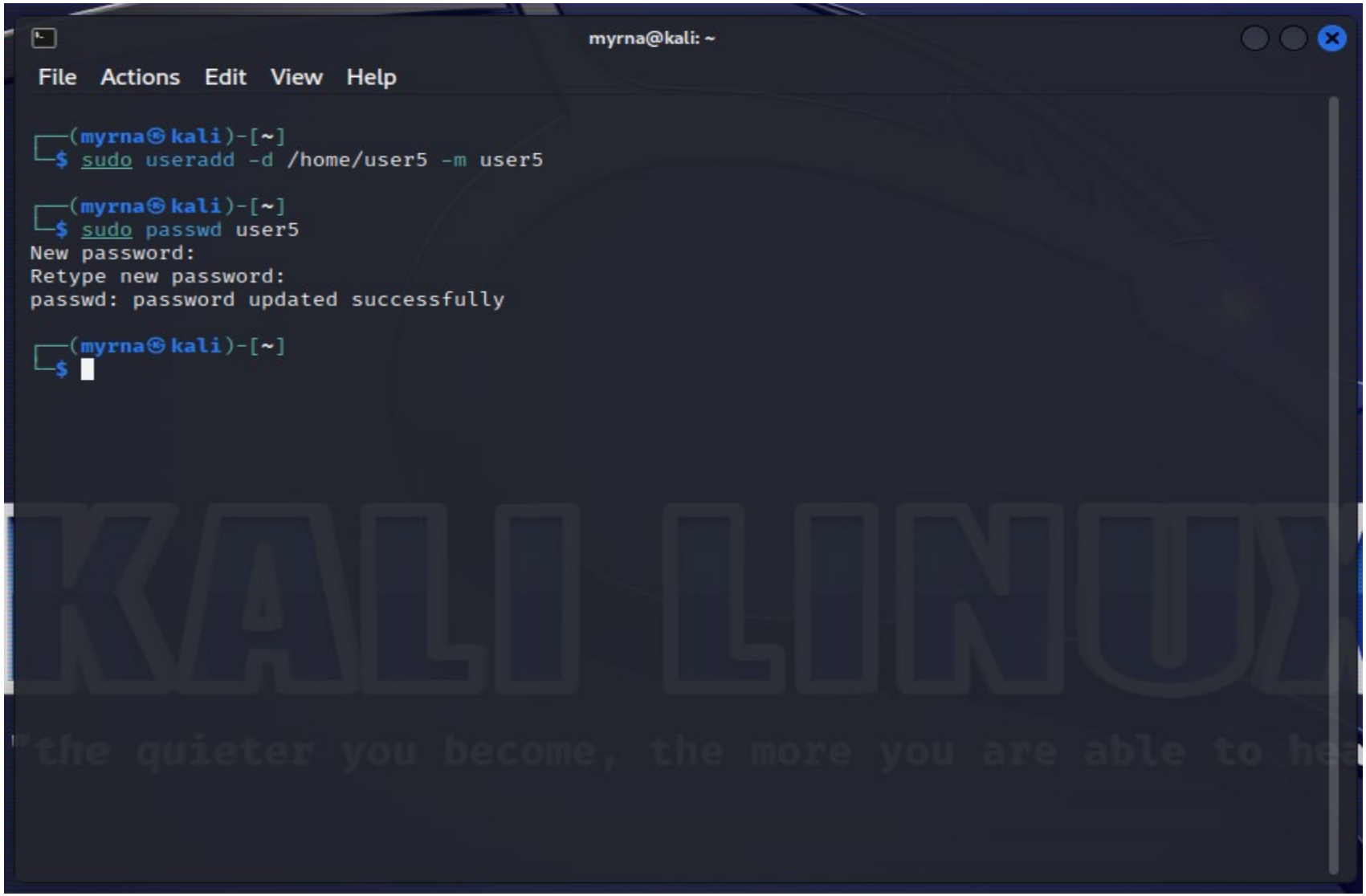
Step 1.2 Using **sudo useradd -d /home/user2 -m user2**, user 2 was created. Using **sudo passwd user2**, password was set to **4536.**



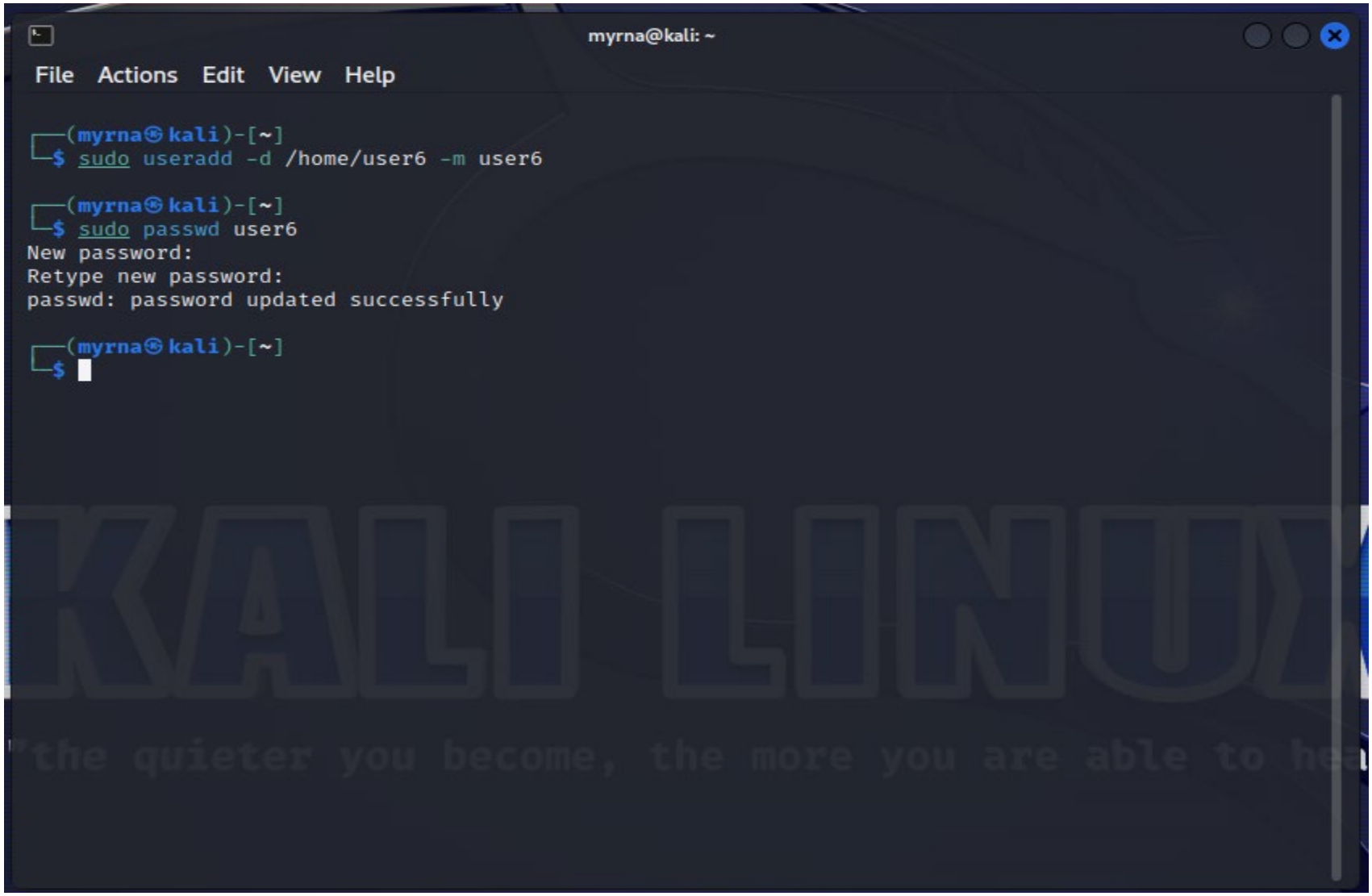
Step 1.3 Using **sudo useradd -d /home/user3 -m user3**, user 3 was created. Using **sudo passwd user3**, password was set to **rainyday213.**

Step 1.4 Using **sudo useradd -d /home/user4 -m user4**, user 4 was created. Using **sudo passwd user4**, password was set to **lightning#978!**

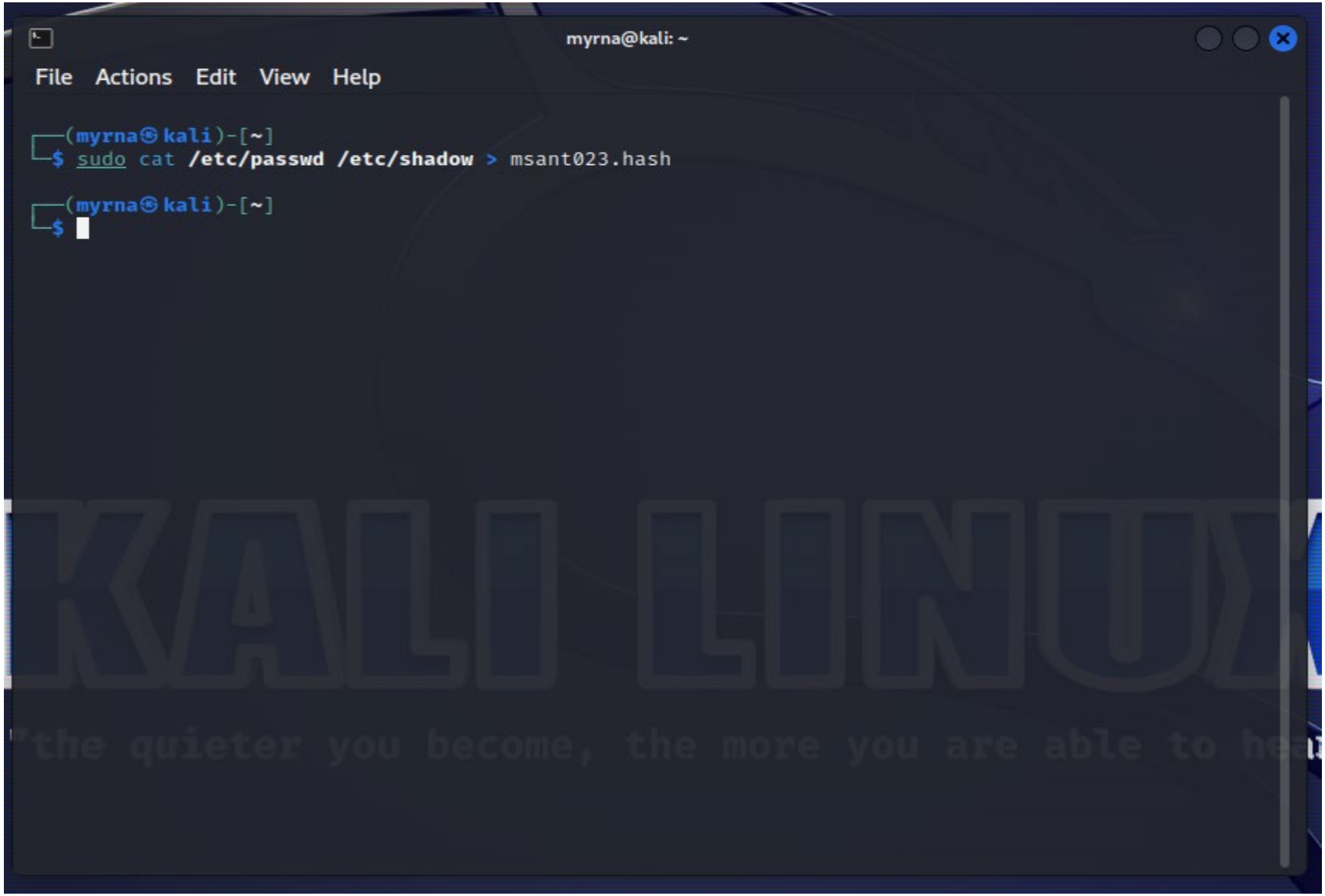
Step 1.5 Using **sudo useradd -d /home/user5 -m user5**, user 5 was created. Using **sudo passwd user5**, password was set to **hurricane159753.**



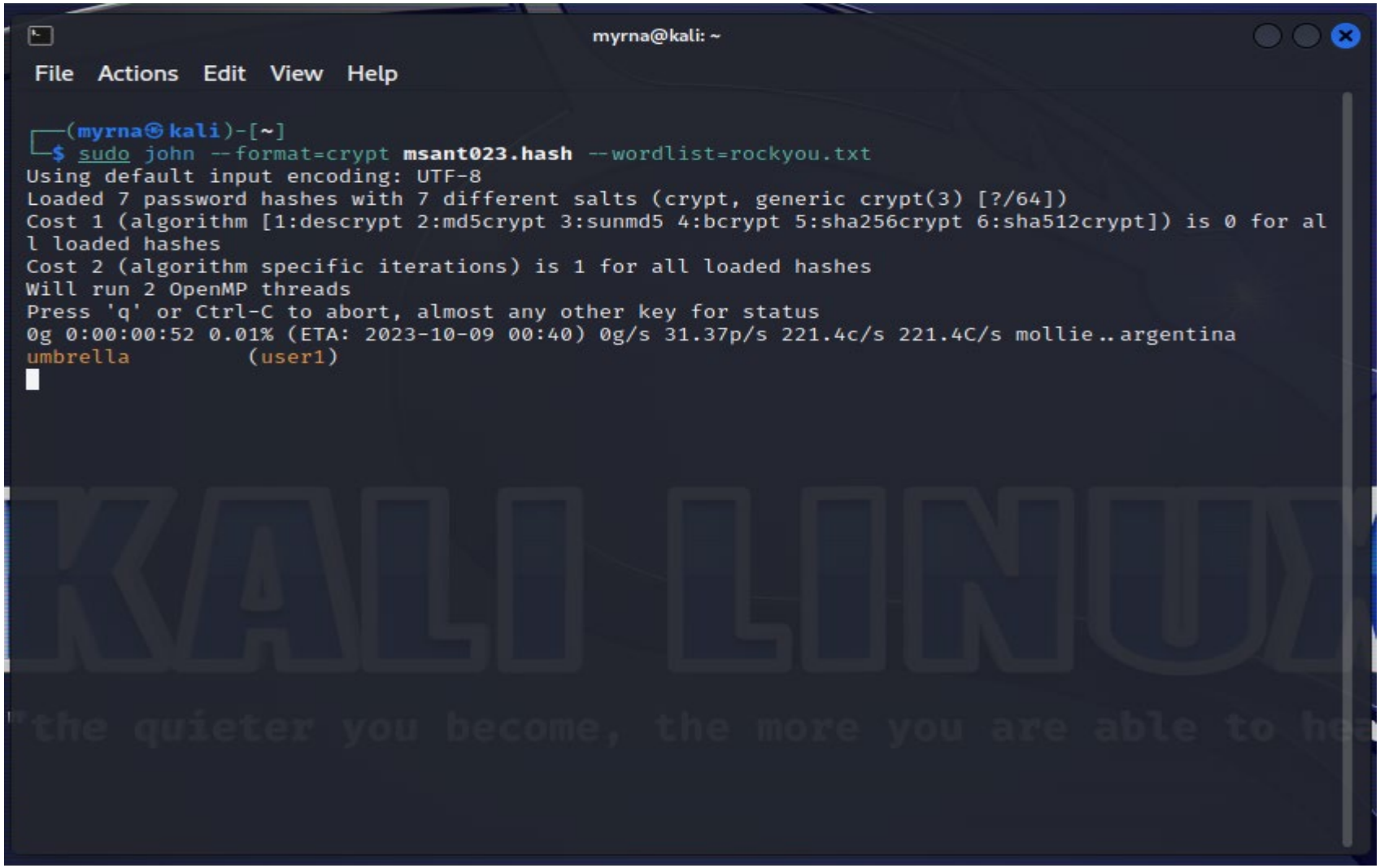
Step 1.6 Using **sudo useradd -d /home/user6 -m user6**, user 6 was created. Using **sudo passwd user6**, password was set to **Thund3r#4678!**



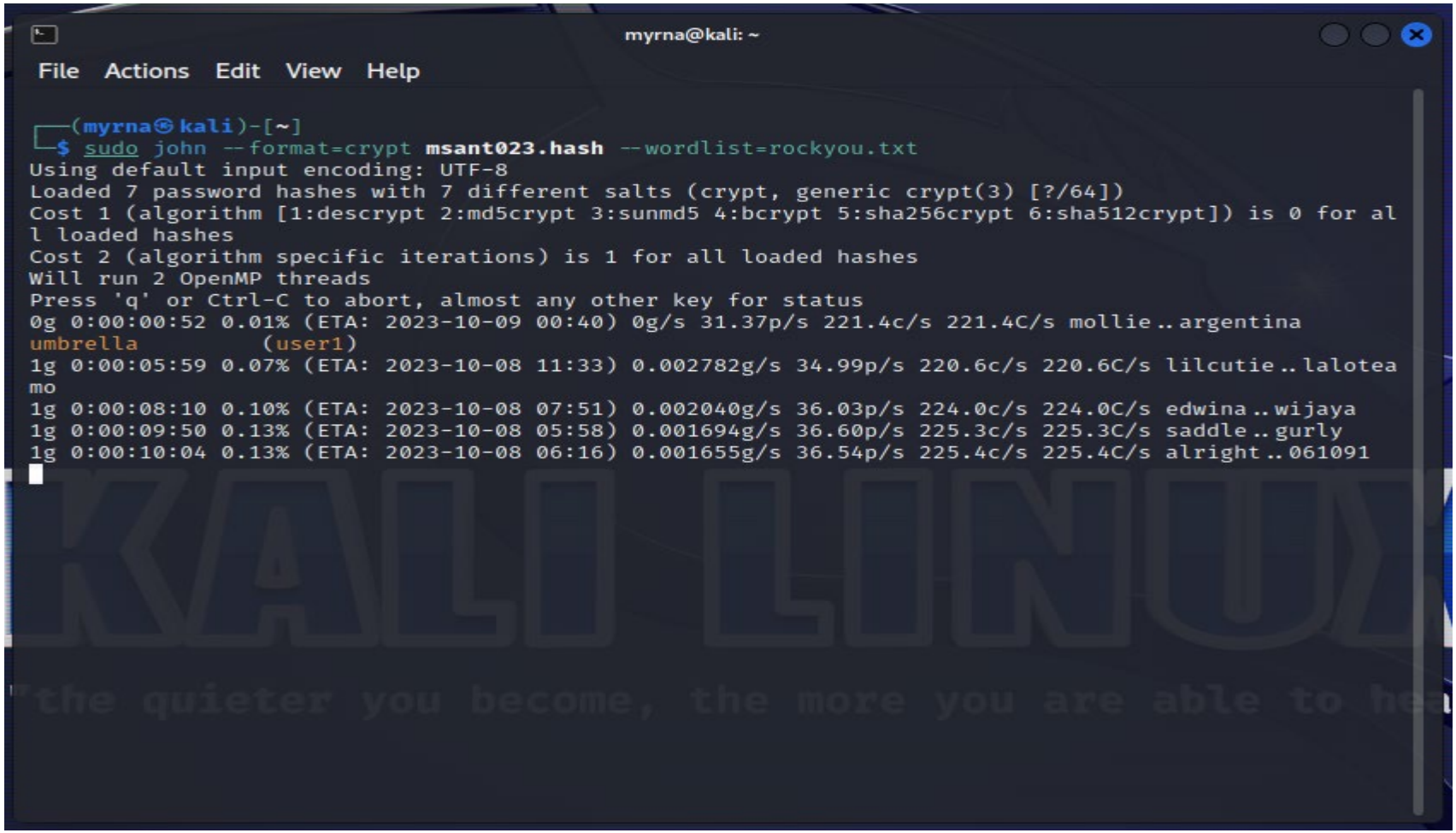
Step 2.1 Used **sudo cat /etc/passwd /etc/shadow > msant023.hash** to export hashes into msant023.hash file.



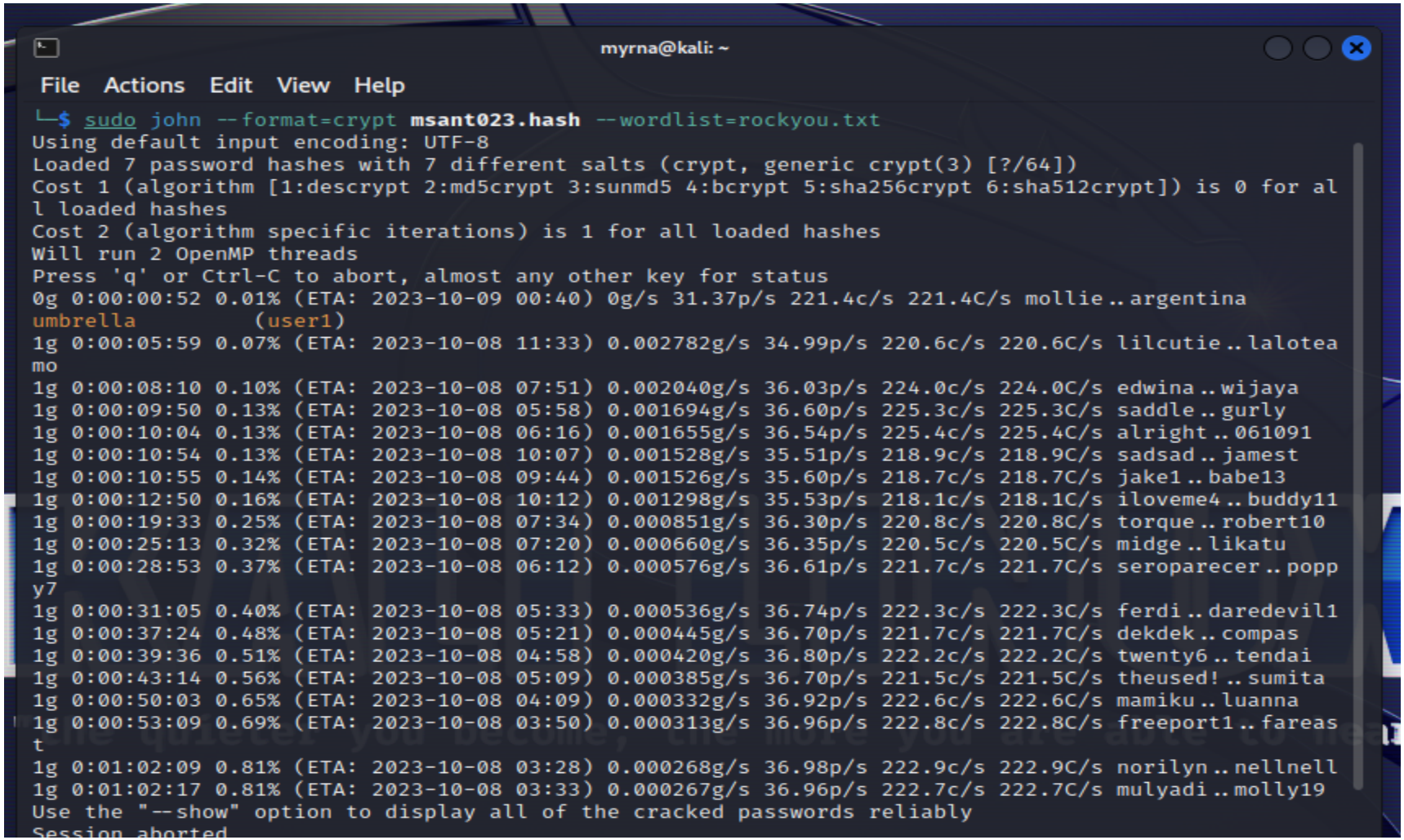
Step 2.2 Used John the Ripper, **sudo john –format=crypt msant023.hash –wordlist=rockyou.txt**, to crack the passwords created in step one. After 52 seconds the first password for user 1 was displayed.



Step 3.1 After running for ten minutes, only 0.13% of the rock file was compare to the password and only password for user one was displayed.

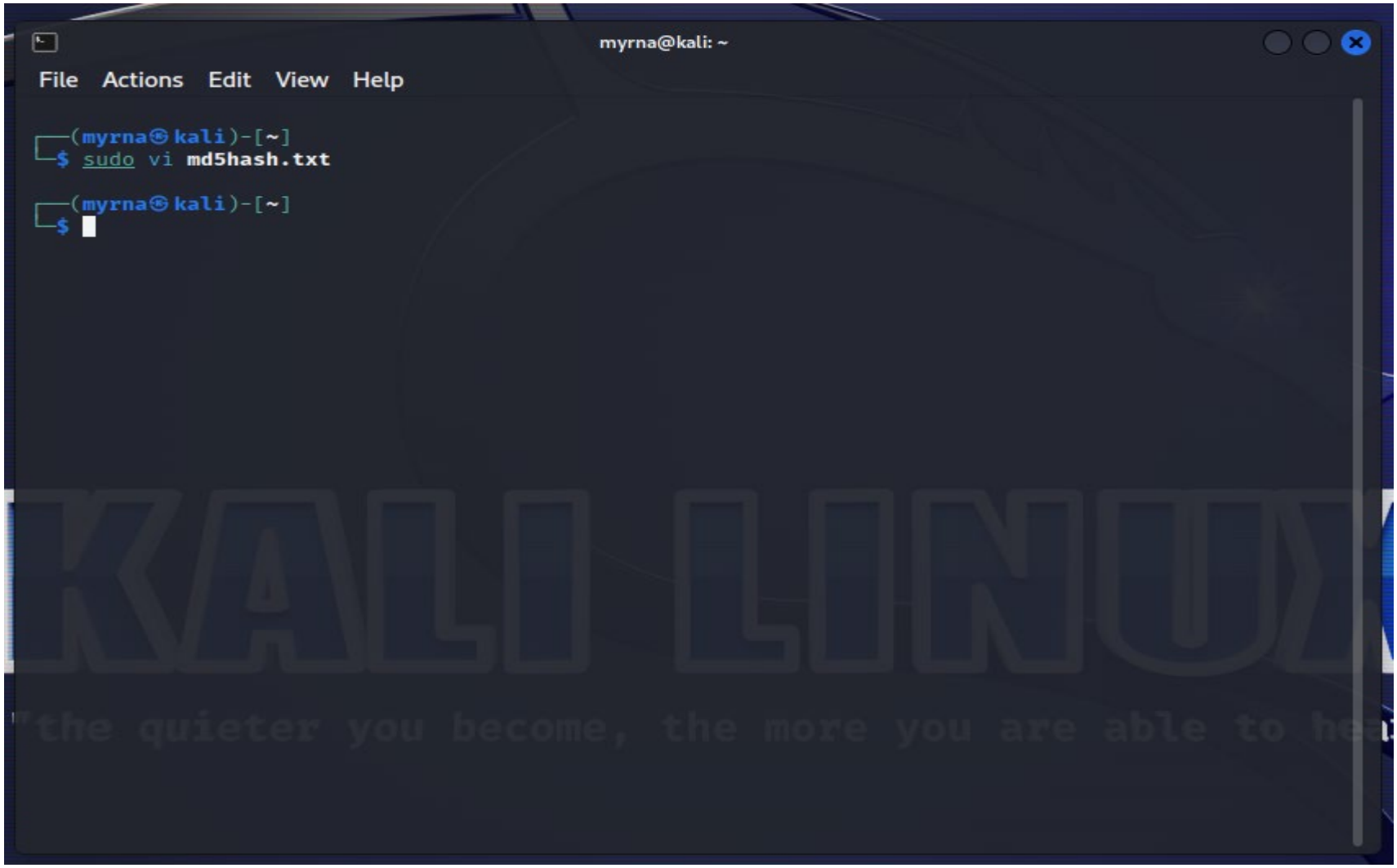


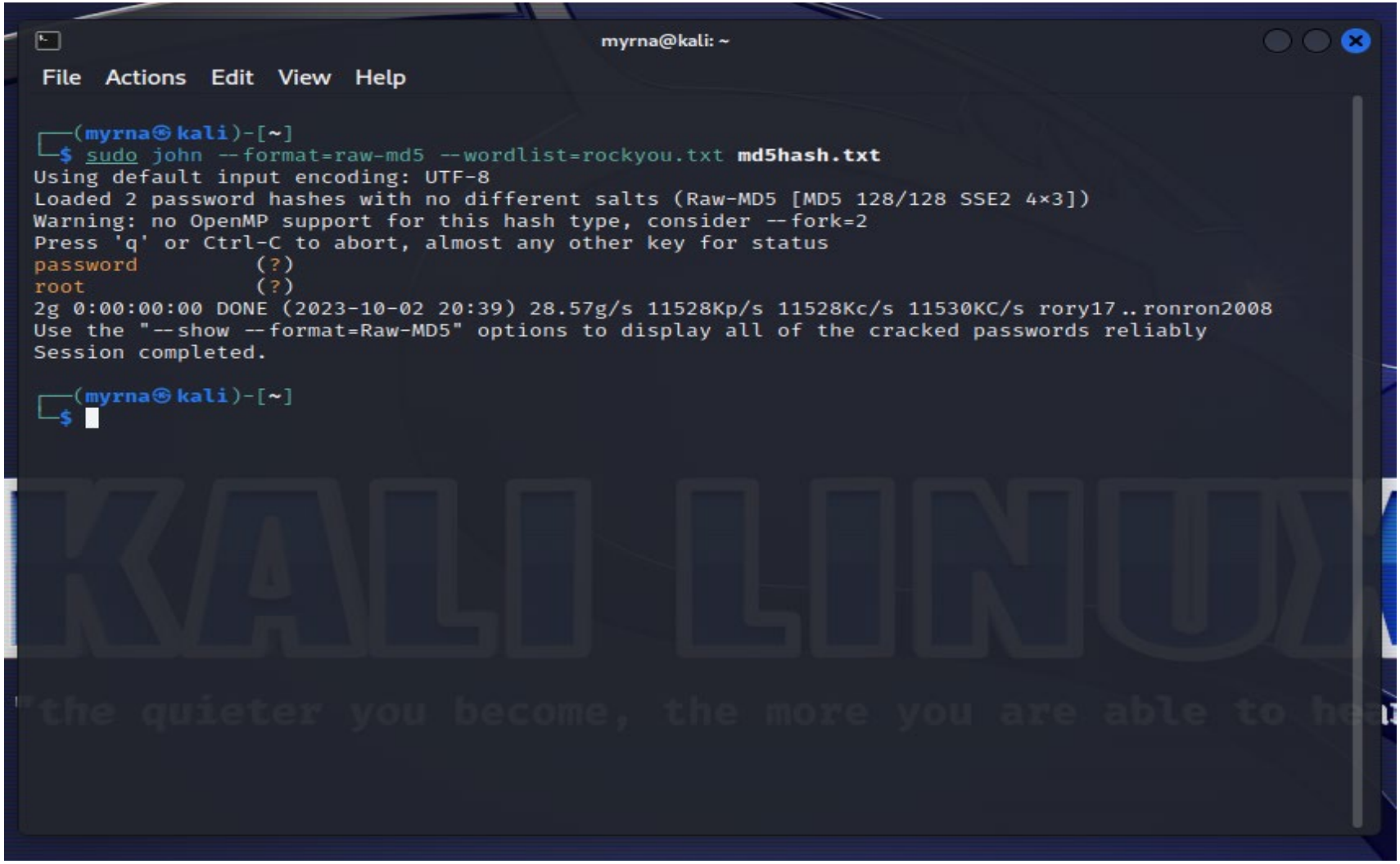
Step 3.2 I let the program run for an hour and only one password was displayed with less than 1% of the rockyou.txt file used for comparison. Considering this if pattern continue John the Ripper will need roughly 100 hours to compare each password to the entirety of the file.



Extra credit:

Step 1.1 Using **sudo vi md5hash.txt**, a new file was created.



Step 1.2 Using pressing i on vi command I wrote the two hash values given and press :w and :q to save and exit file.

Step 1.3 Using **sudo john –format=raw-md5 –wordlist=rockyou.txt md5hash.txt**, the 2 hash values produced **password** and **root** as the results