CEIS 106 FINAL PROJECT

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OVERVIEW

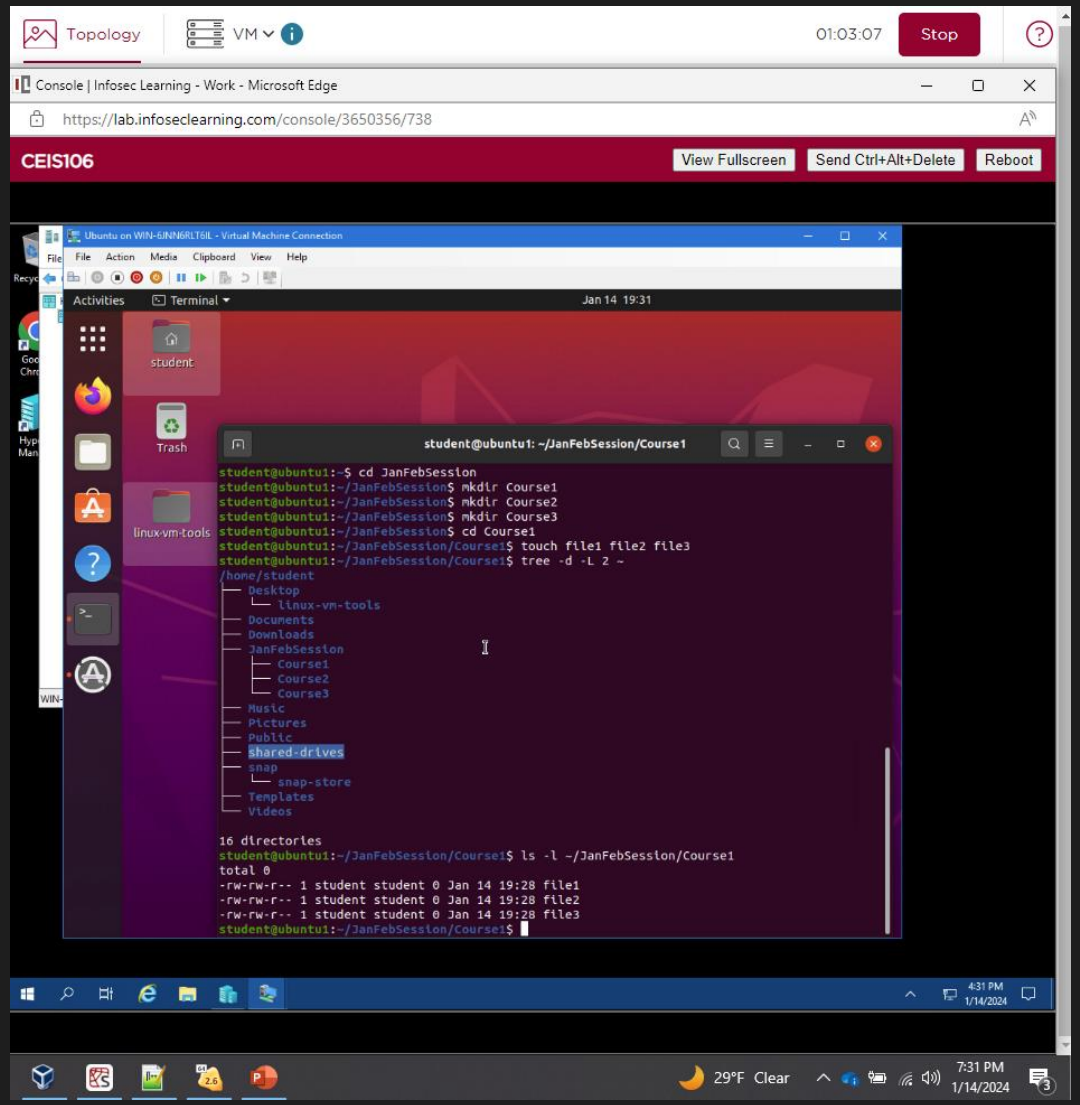
In this project we covered several important topics in Linux. Topics included how to navigate the Linux filesystem tree, Linux shell scripts, user and group management, networking configurations in Linux.

NAVIGATE THE LINUX FILESYSTEM TREE

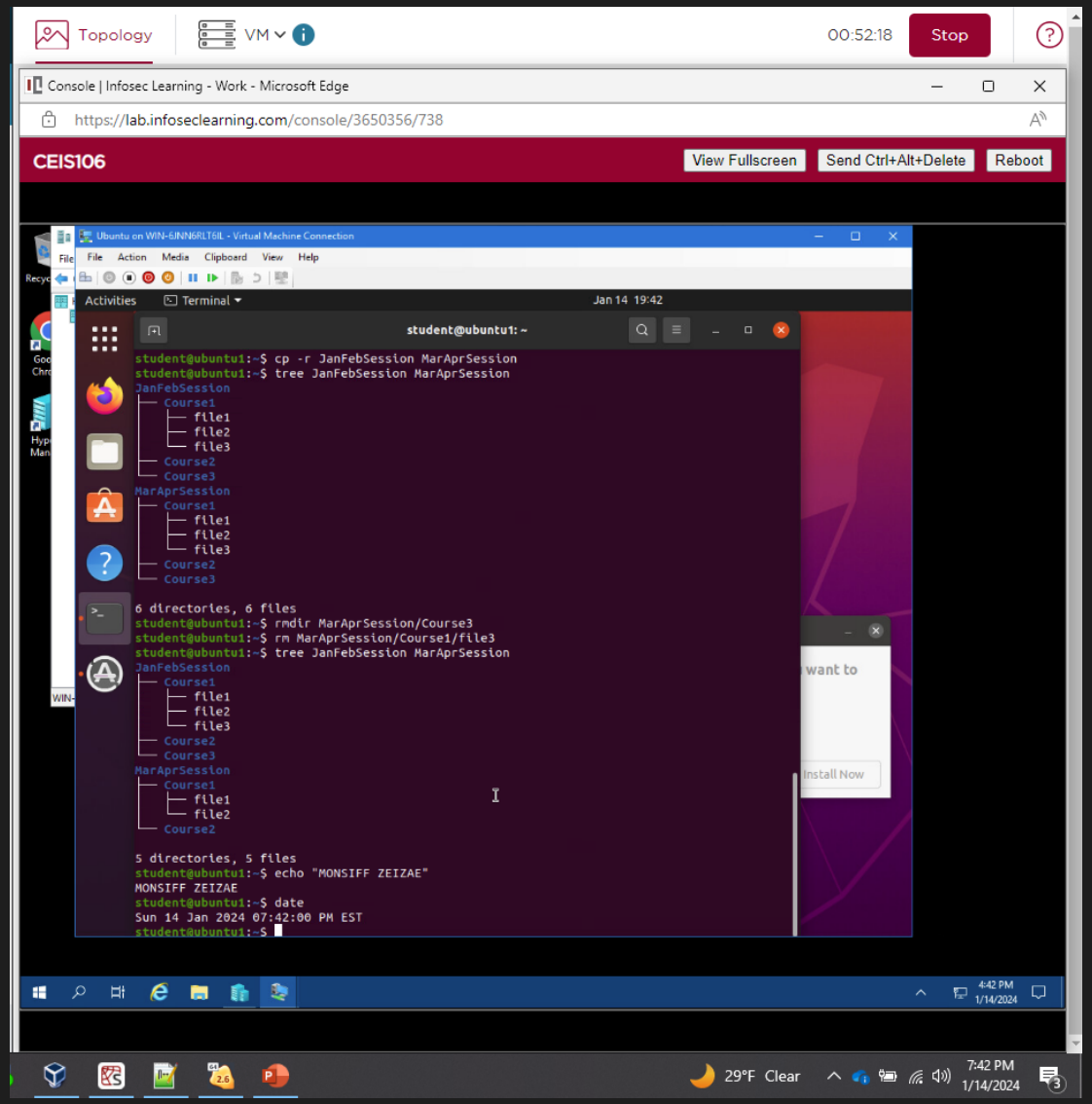
Explain the differences between a relative path and an absolute/full path in Linux.

Answer: In Linux an absolute path is used to provide the entire locate of a file or a directory stemming from the root directory “/”. Whereas the relative path is used to specify the location of a file or directory relative to the current working directory.

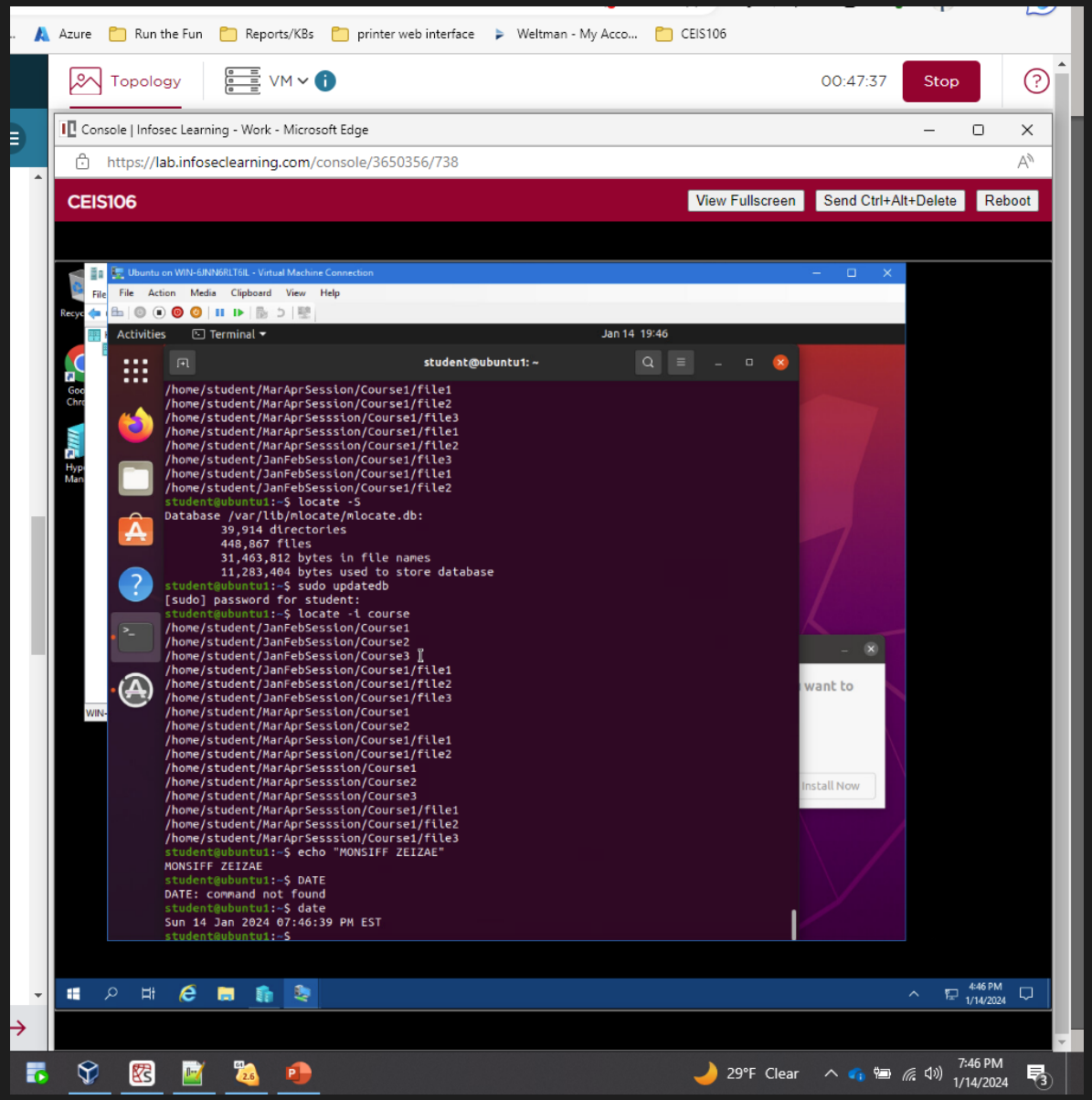
CREATE DIRECTORIES AND FILES



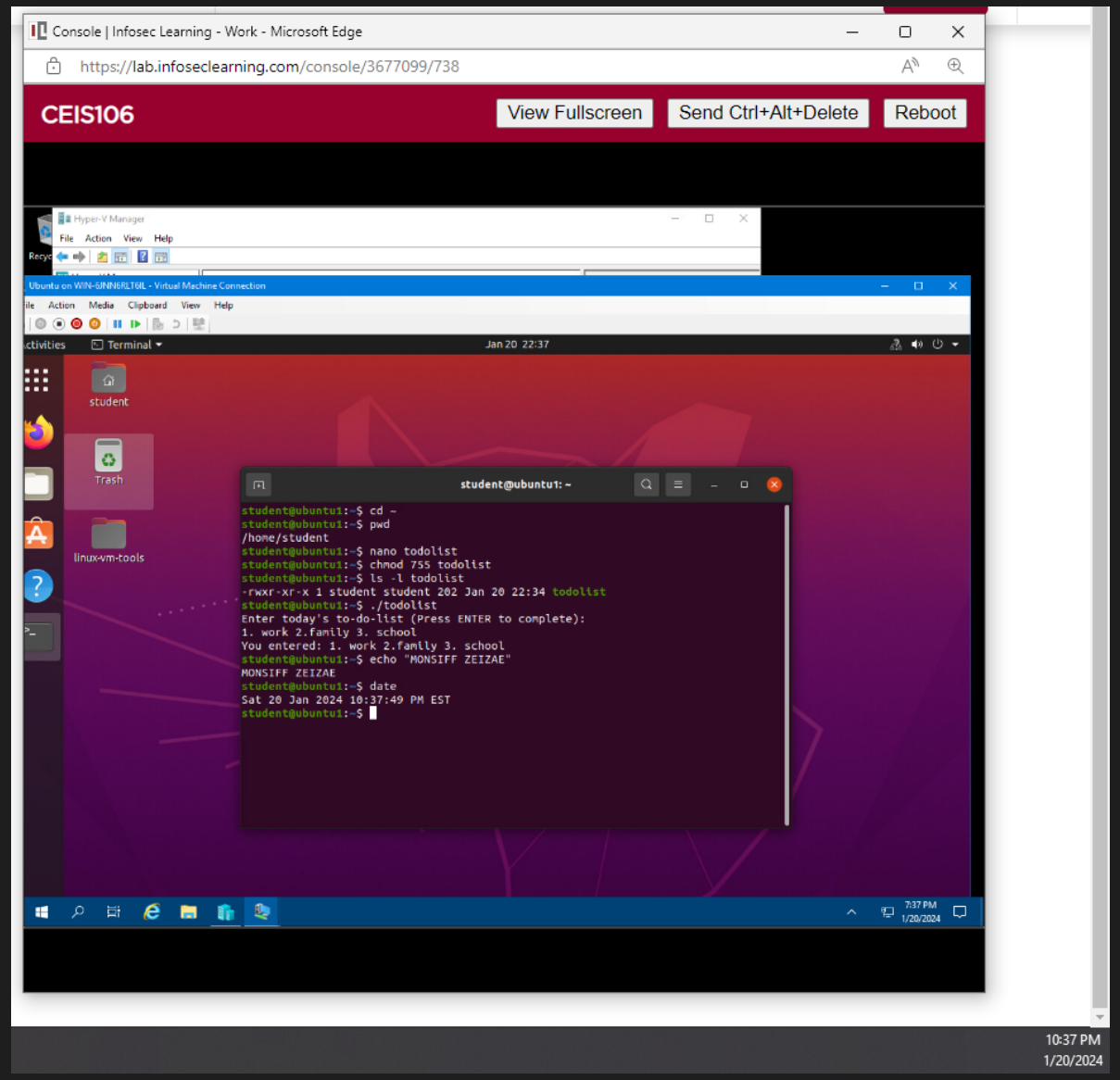
COPY AND REMOVE DIRECTORIES AND FILES



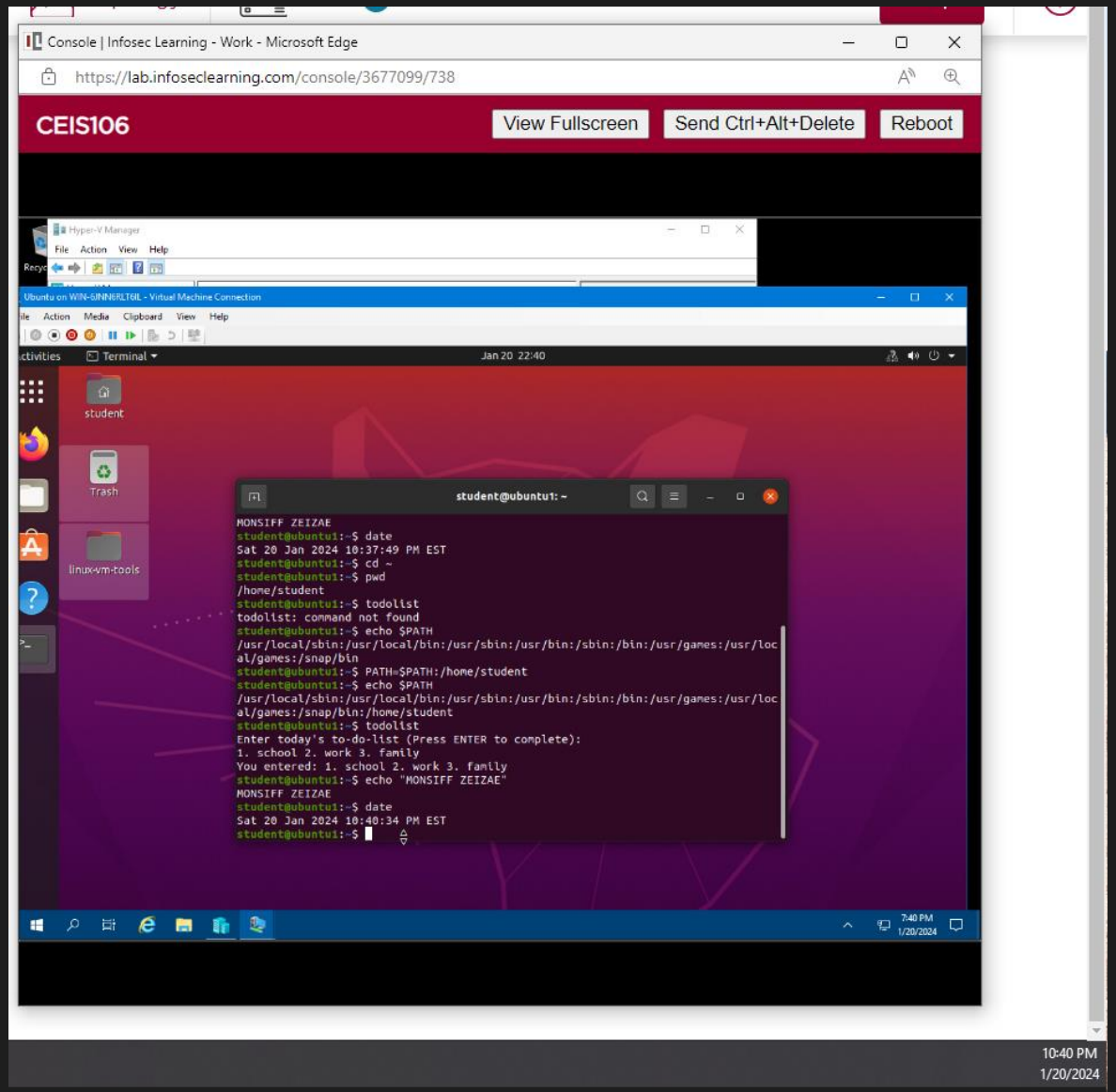
LOCATE DIRECTORIES AND FILES



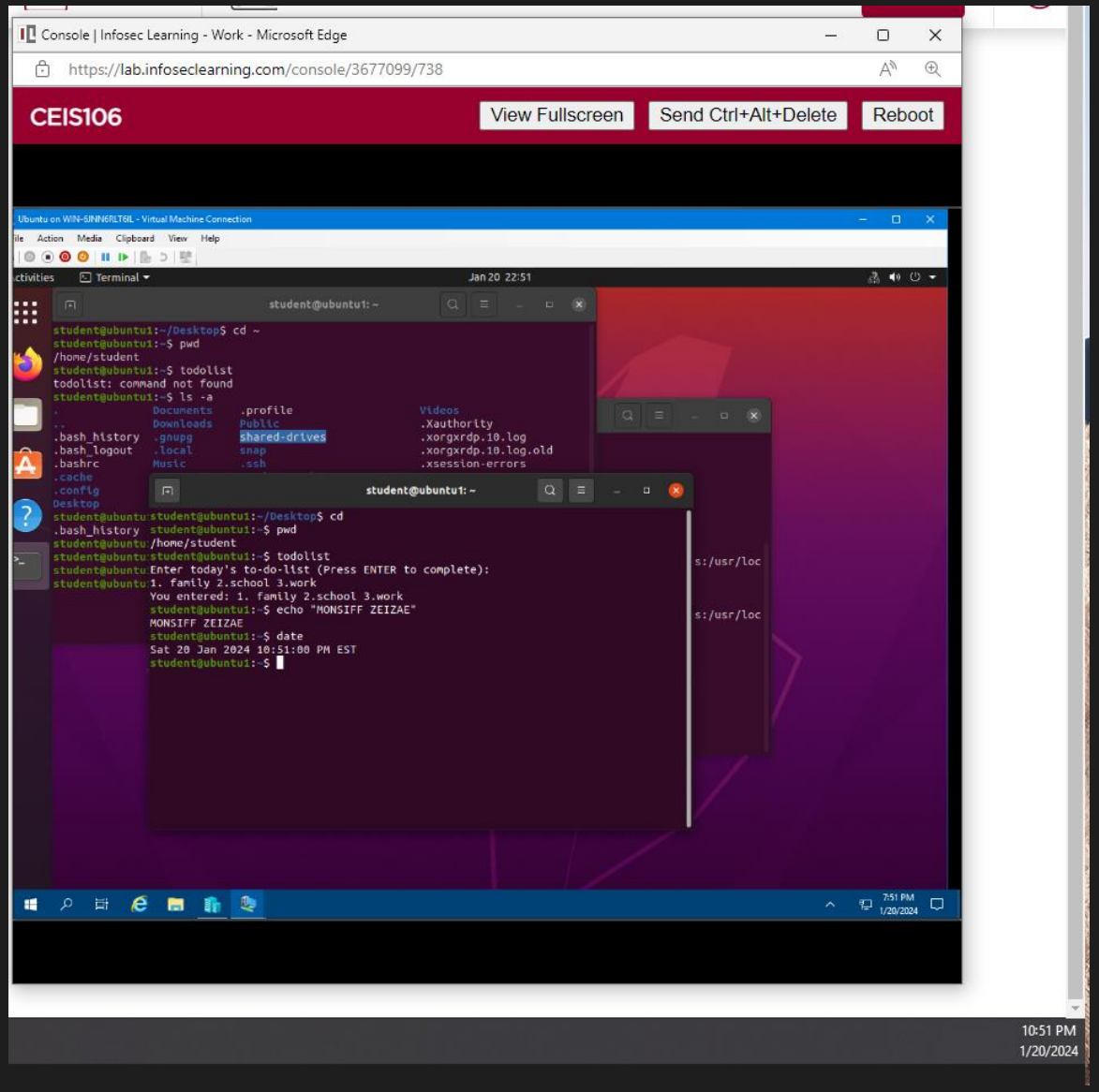
CHANGE SCRIPT FILE PERMISSIONS



SET THE PATH VARIABLE



MAKE THE PATH VARIABLE PERMANENT



ADD USERS AND GROUPS IN CLI

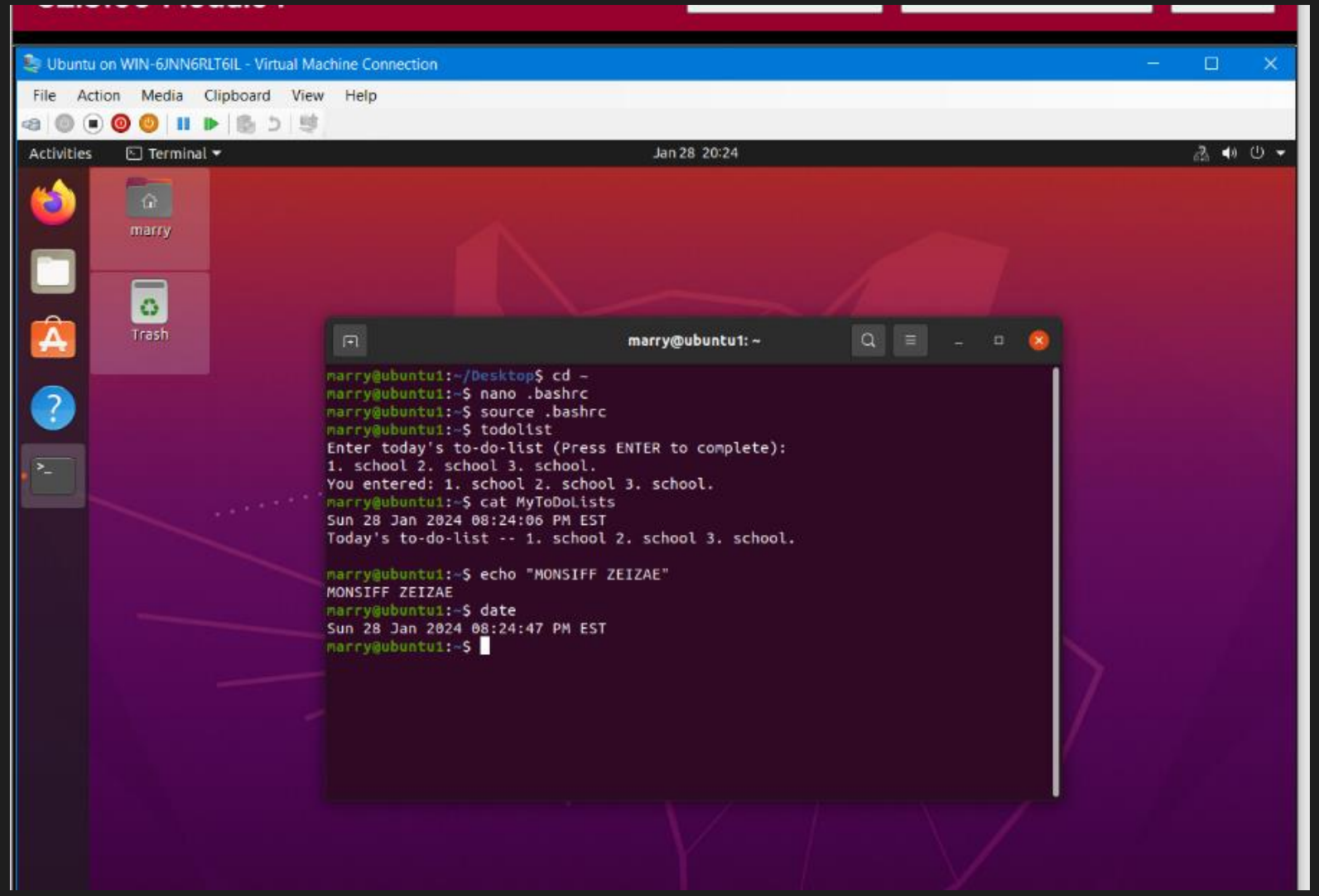
. What does the *–m* option in the useradd command do?

Answer here: “-m” tells useradd command to create a home directory for the new user

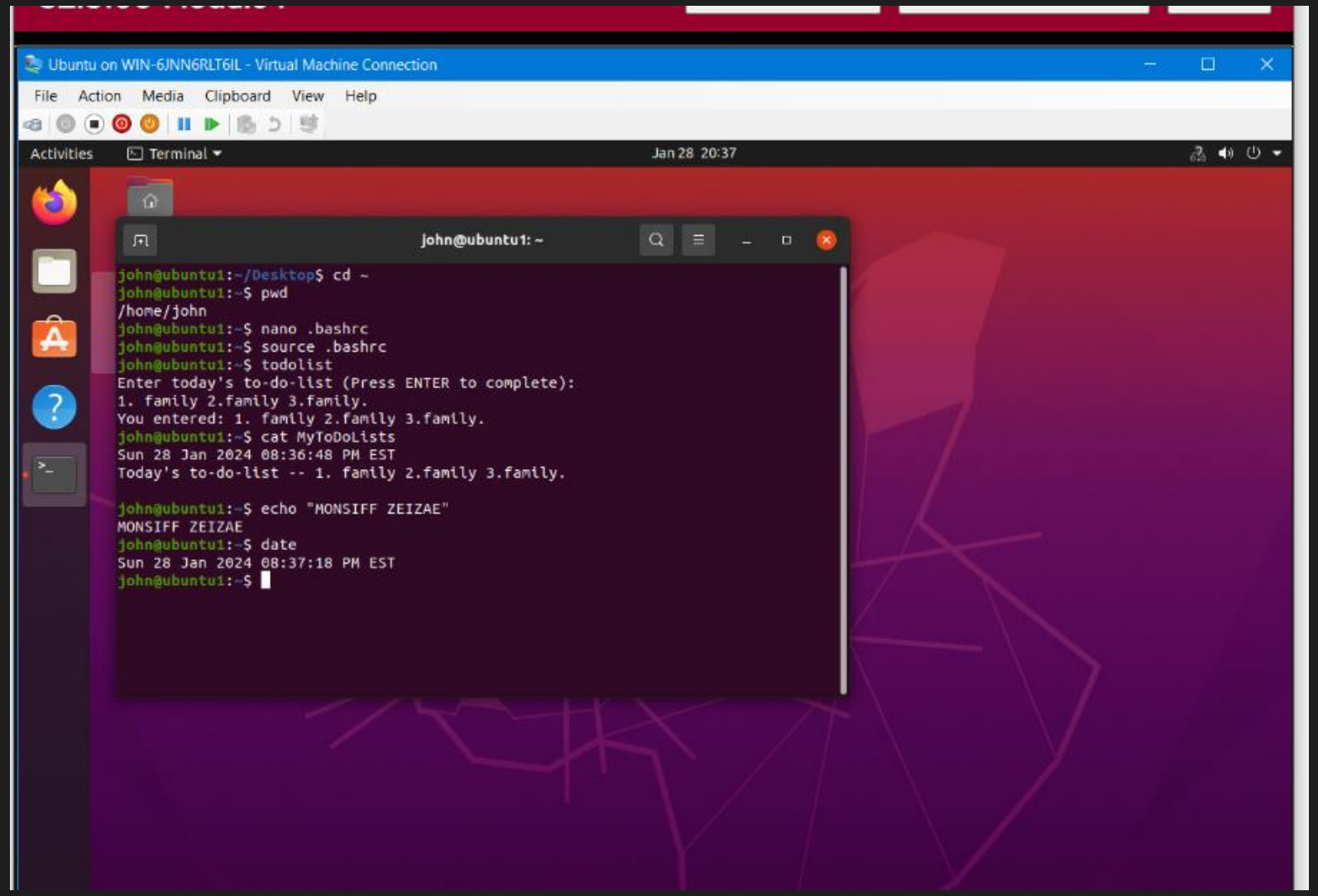
2. What does the *-3* option in the tail command do?

Answer here: it tells the tail command how many lines to show from the end of the file

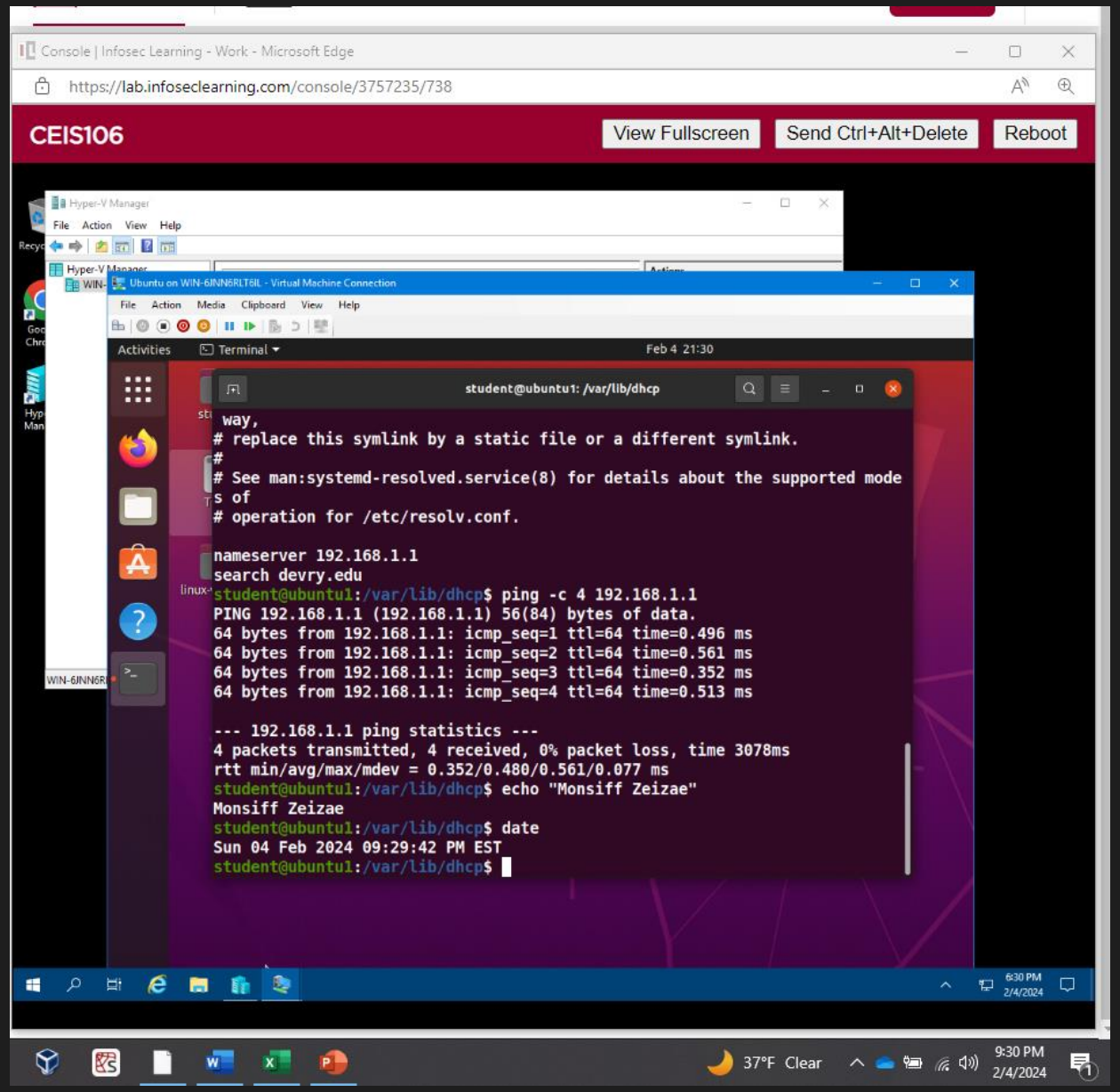
TEST USER AND GROUP SETTINGS



ADD USERS IN GUI



NETWORK CONFIGURATIONS



USE OF NETWORK UTILITIES

```
student@ubuntu1: ~
student@ubuntu1:~$ ifconfig eth0
eth0: flags=4098<BROADCAST,MULTICAST>  mtu 1500
        ether 00:15:5d:00:ba:04  txqueuelen 1000  (Ethernet)
        RX packets 3337  bytes 259854 (259.8 KB)
        RX errors 0  dropped 0  overruns 0  frame 0
        TX packets 5444  bytes 447323 (447.3 KB)
        TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0

student@ubuntu1:~$ sudo ifconfig eth0 up
student@ubuntu1:~$ ifconfig eth0
eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST>  mtu 1500
        inet 192.168.1.107  netmask 255.255.255.0  broadcast 192.168.1.255
        inet6 fe80::7b9e:ebf5:11a6:34e4  prefixlen 64  scopeid 0x20<link>
        ether 00:15:5d:00:ba:04  txqueuelen 1000  (Ethernet)
        RX packets 3354  bytes 261735 (261.7 KB)
        RX errors 0  dropped 0  overruns 0  frame 0
        TX packets 5502  bytes 453704 (453.7 KB)
        TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0

student@ubuntu1:~$ echo "Monsiff Zeizae"
Monsiff Zeizae
student@ubuntu1:~$ date
Sun 04 Feb 2024 09:43:29 PM EST
student@ubuntu1:~$
```