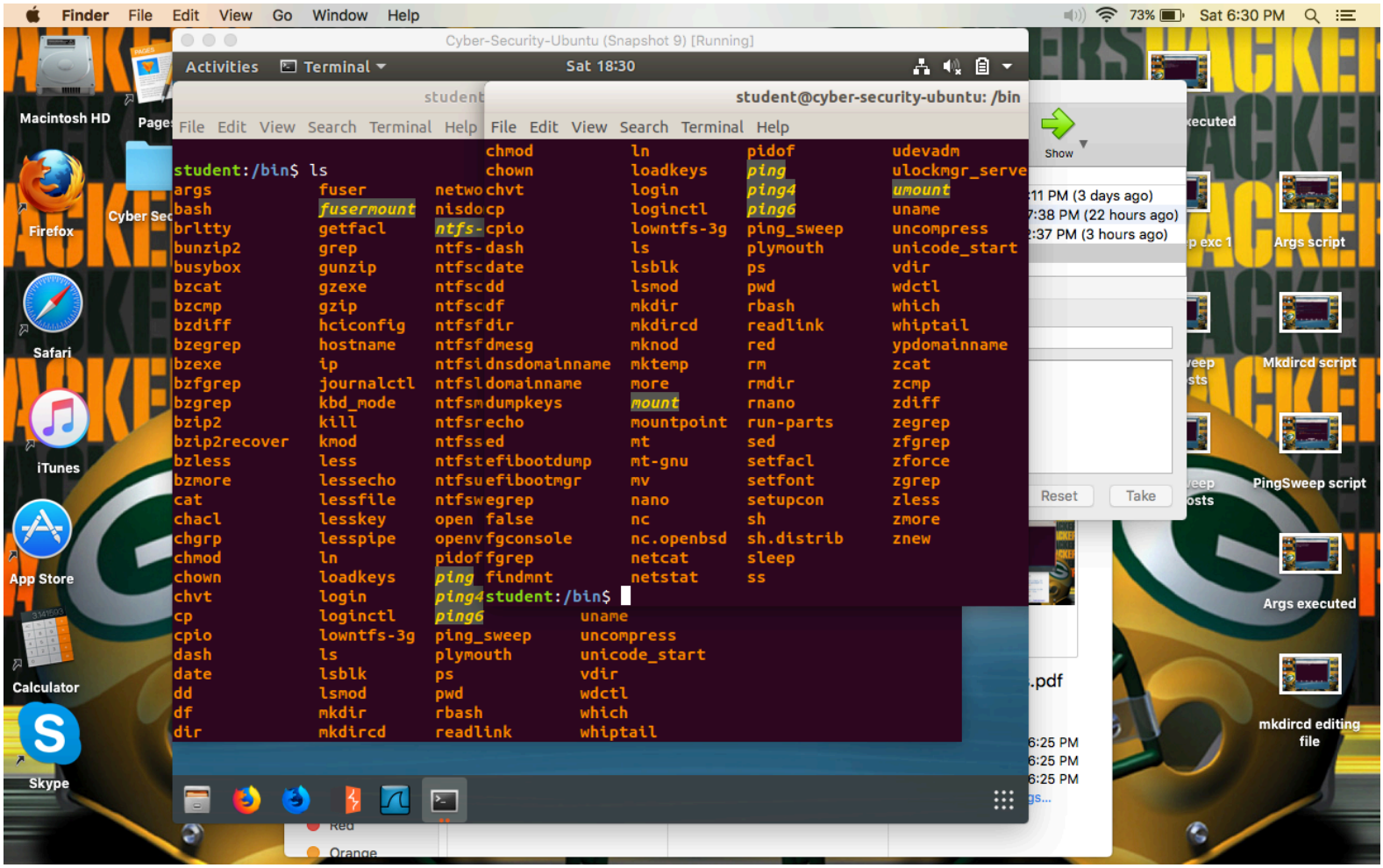
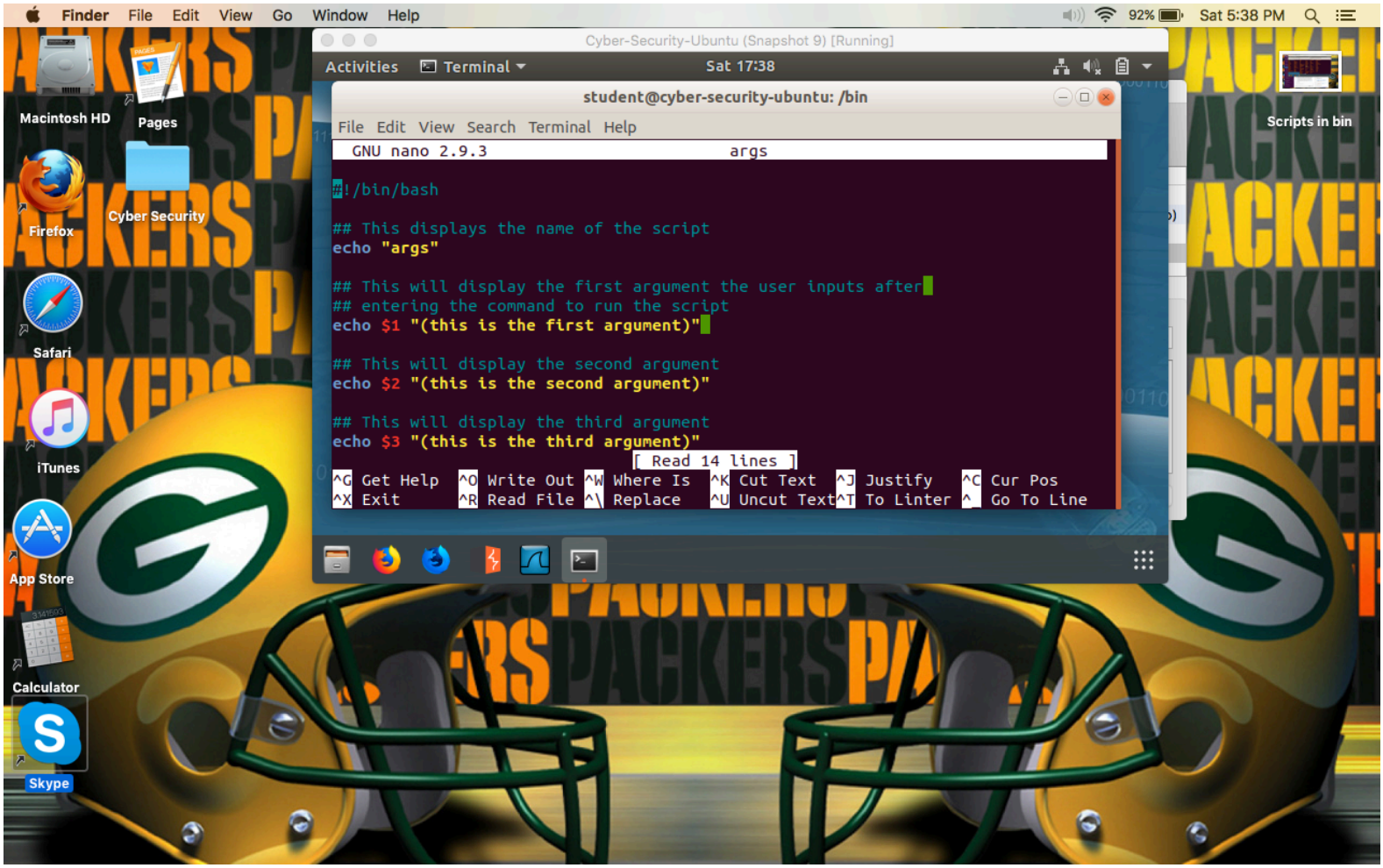
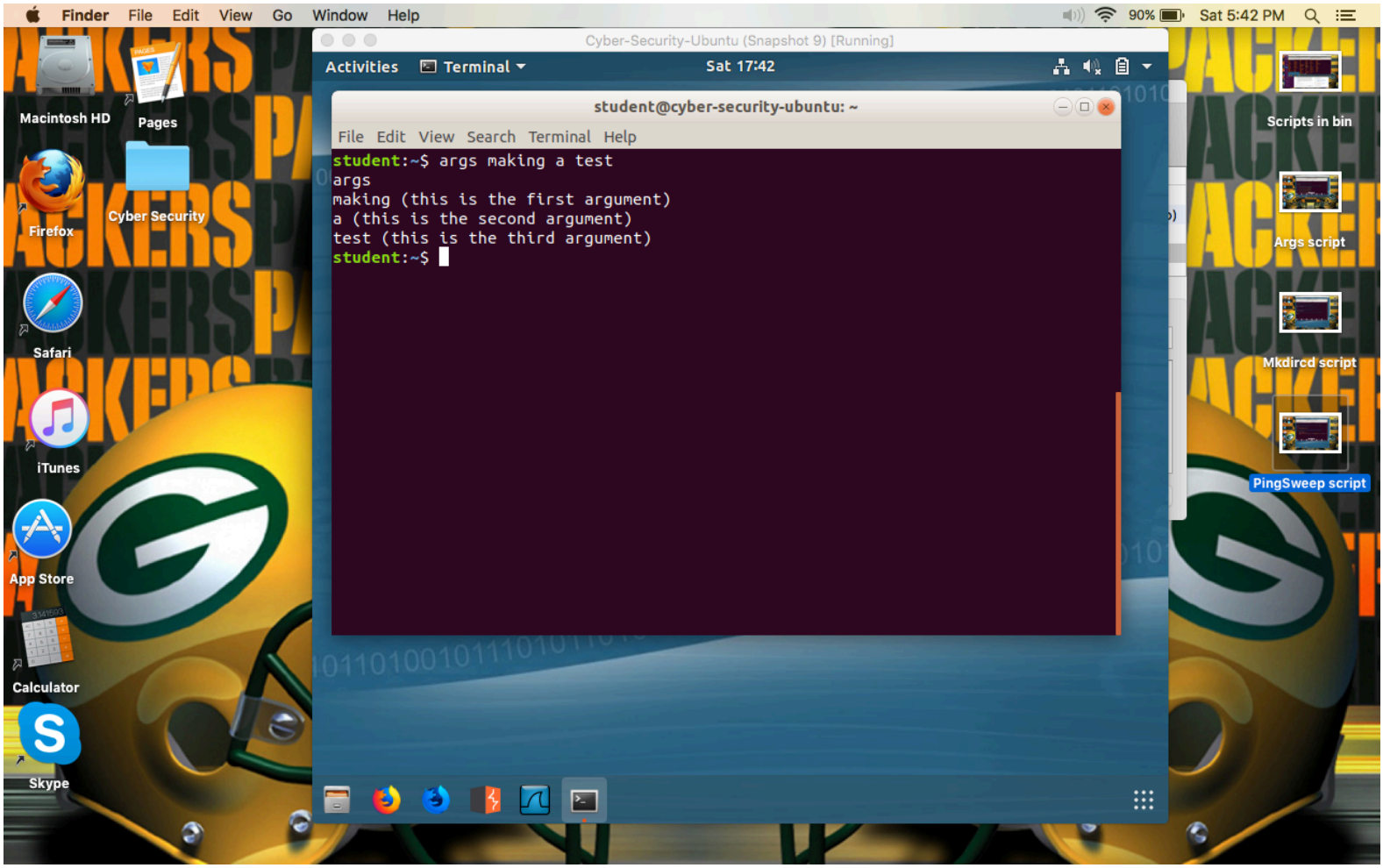
Here within the /bin/ folder, are the scripts that were created for this week's homework assignment as executable commands. In the left terminal window, at the top of the first column you can see the args script, as a command, and in the middle column at the bottom you can see the mkdircd script, also as a command. In the right terminal window, in the third column, in the fifth line you can see the ping_sweep script, also as a command.



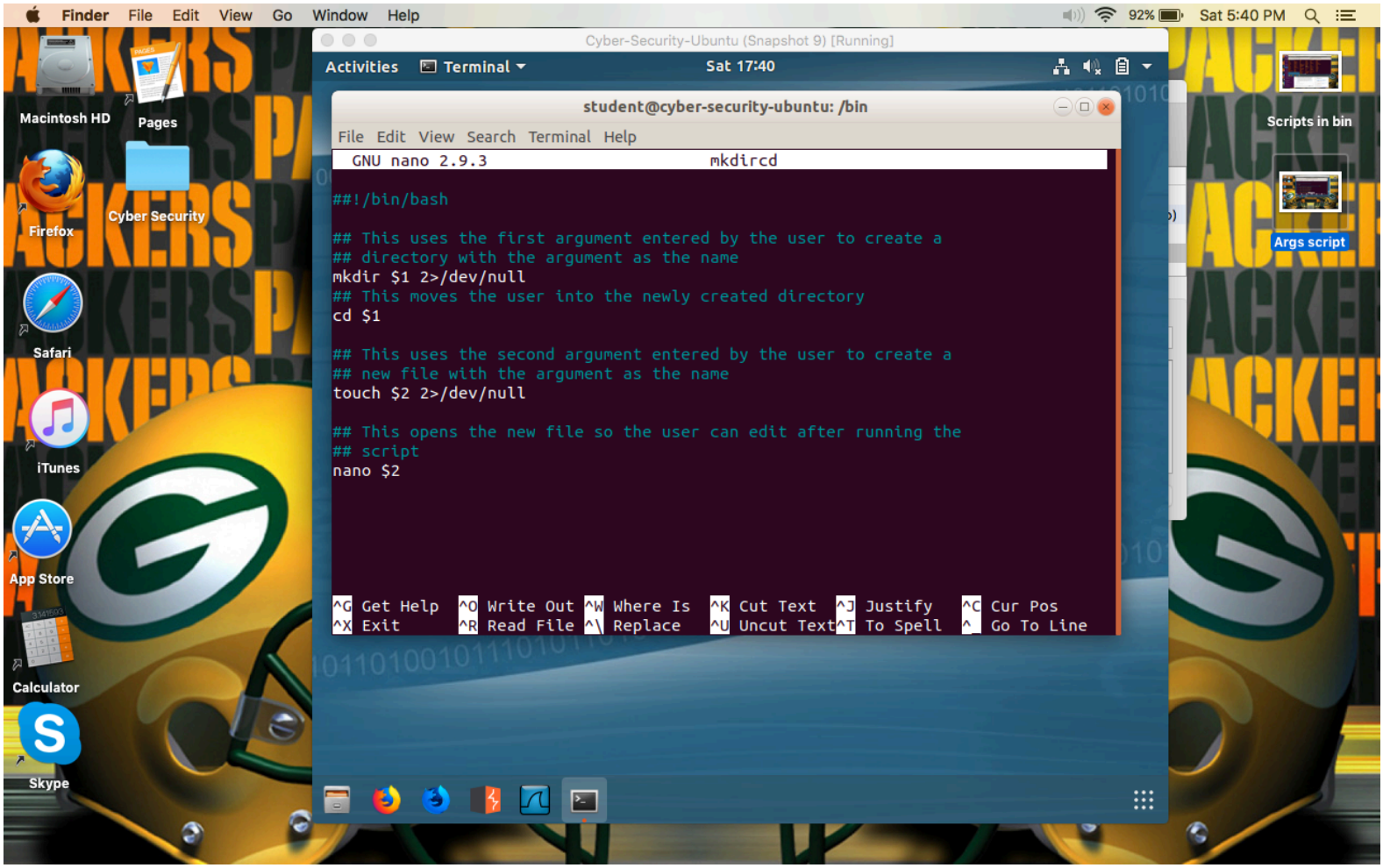
Here I am showing the command for the args.sh file. First I am displaying the name of the command "args". In the following 3 lines I am using "echo $1, echo $2, echo $3" to display the 3 positional arguments the user enters after running the command args.



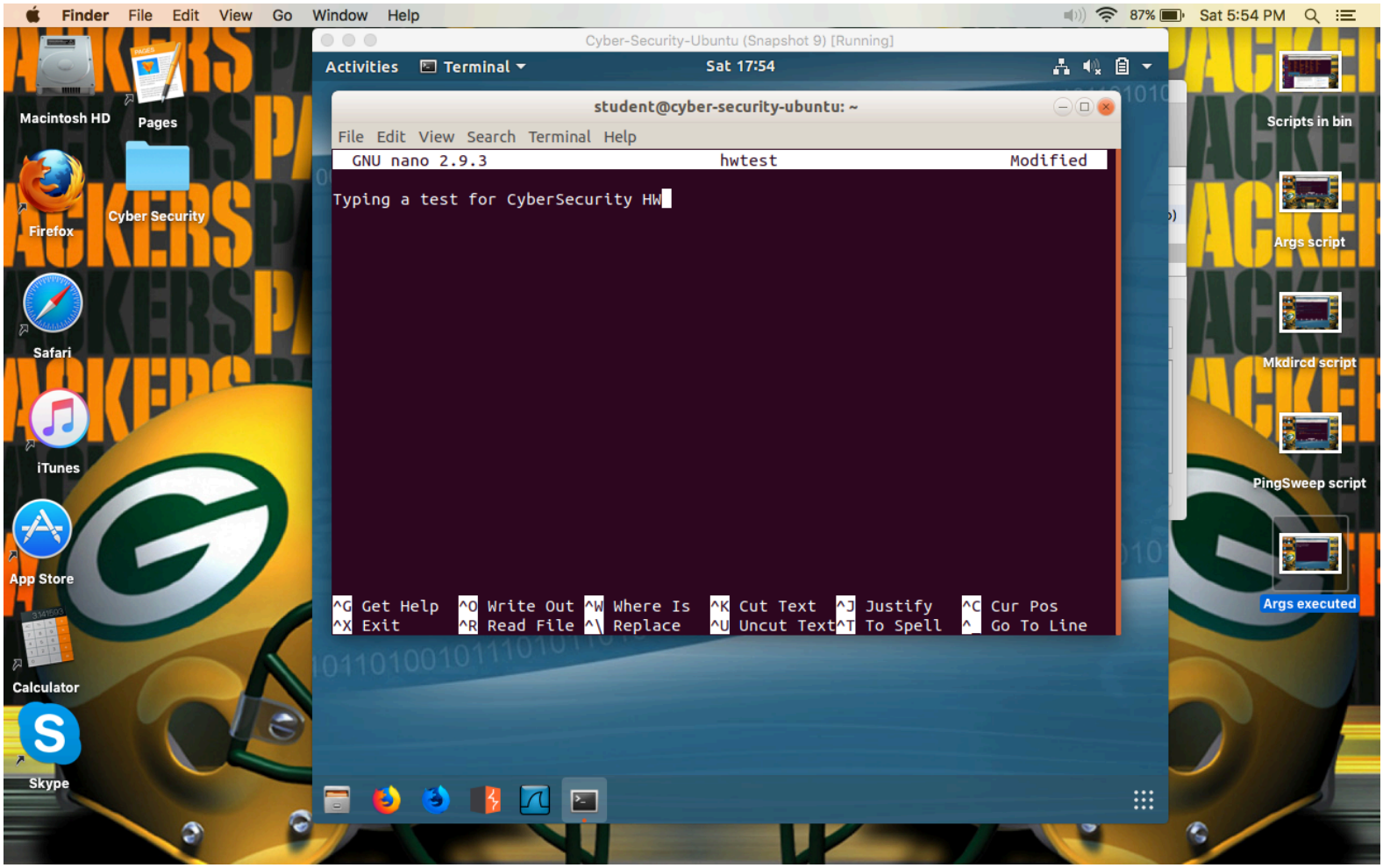
Here I show running the command within the user "student" home folder. "Making a test" are displayed after the command name as separate lines in the display.



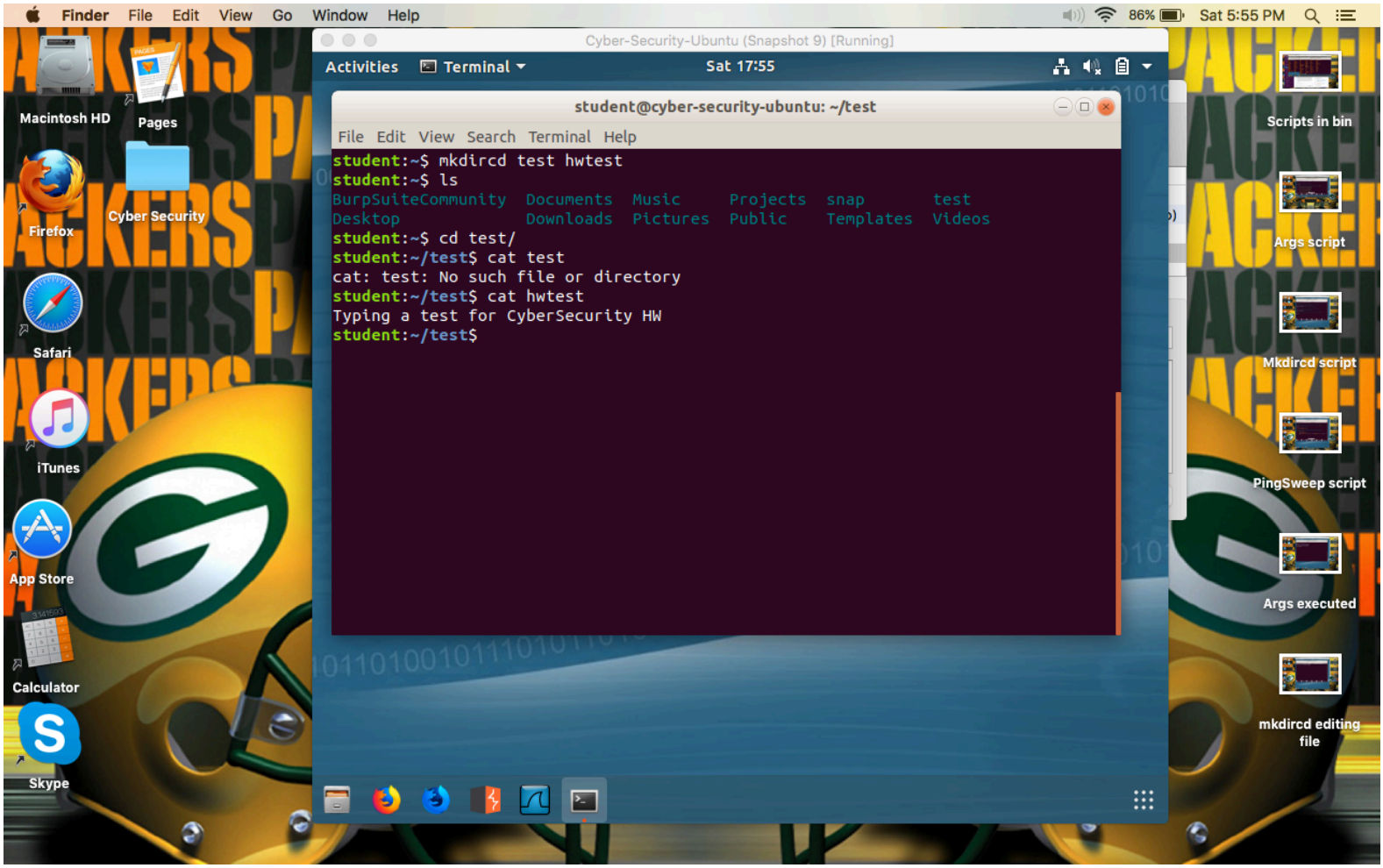
Here I am showing the script for the mkdircd command. It is taking the first and second positional argument and utilizing them to create a new directory, the first argument, and a new file, the second argument. I include the 2>/dev/null line to send any errors to the to the /dev/null file. If there is no second argument used in the command the user will still create a directory and a file will be made with the user being prompted to name the file when exiting and saving.



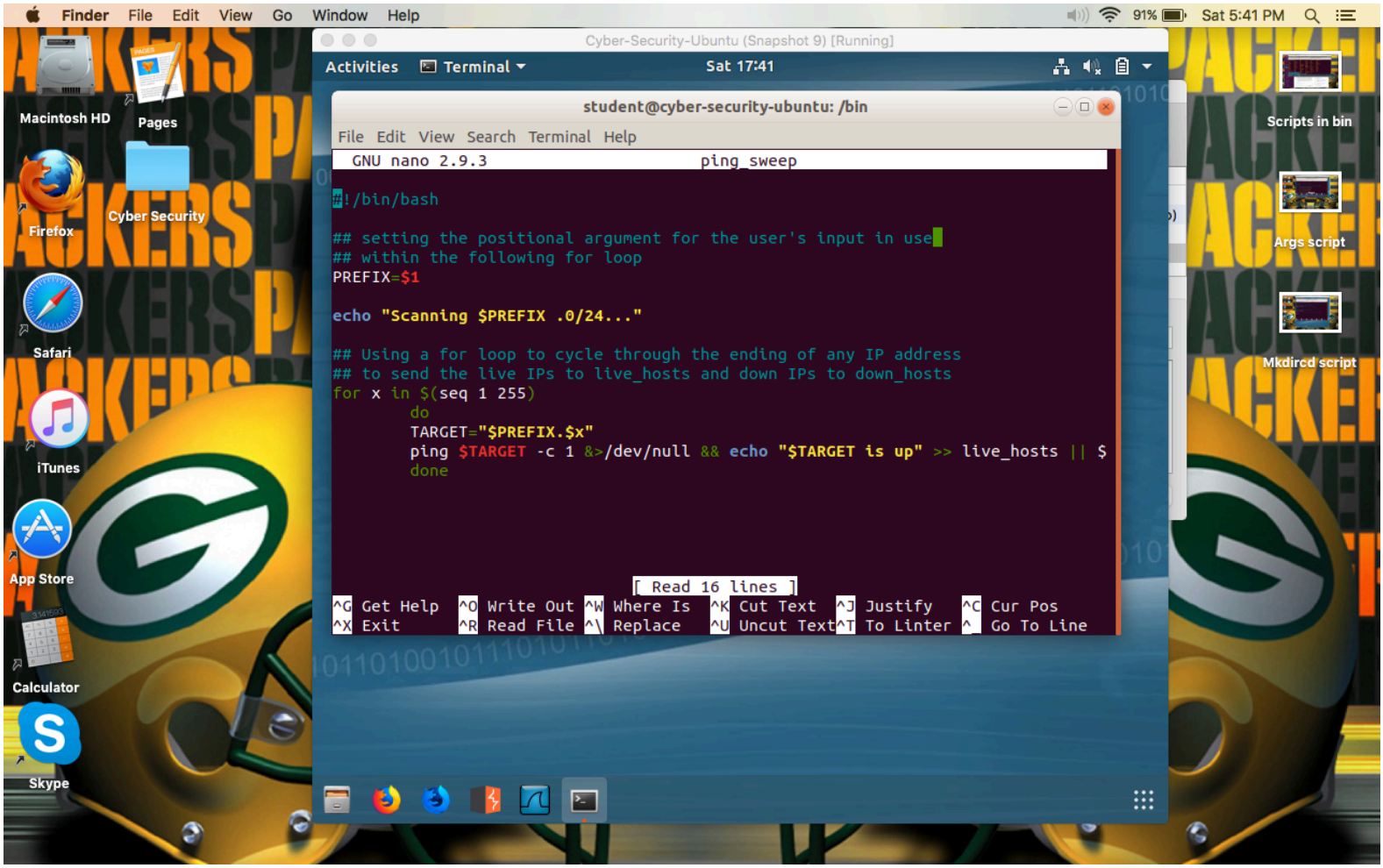
Here I am showing the editing of the newly made file.



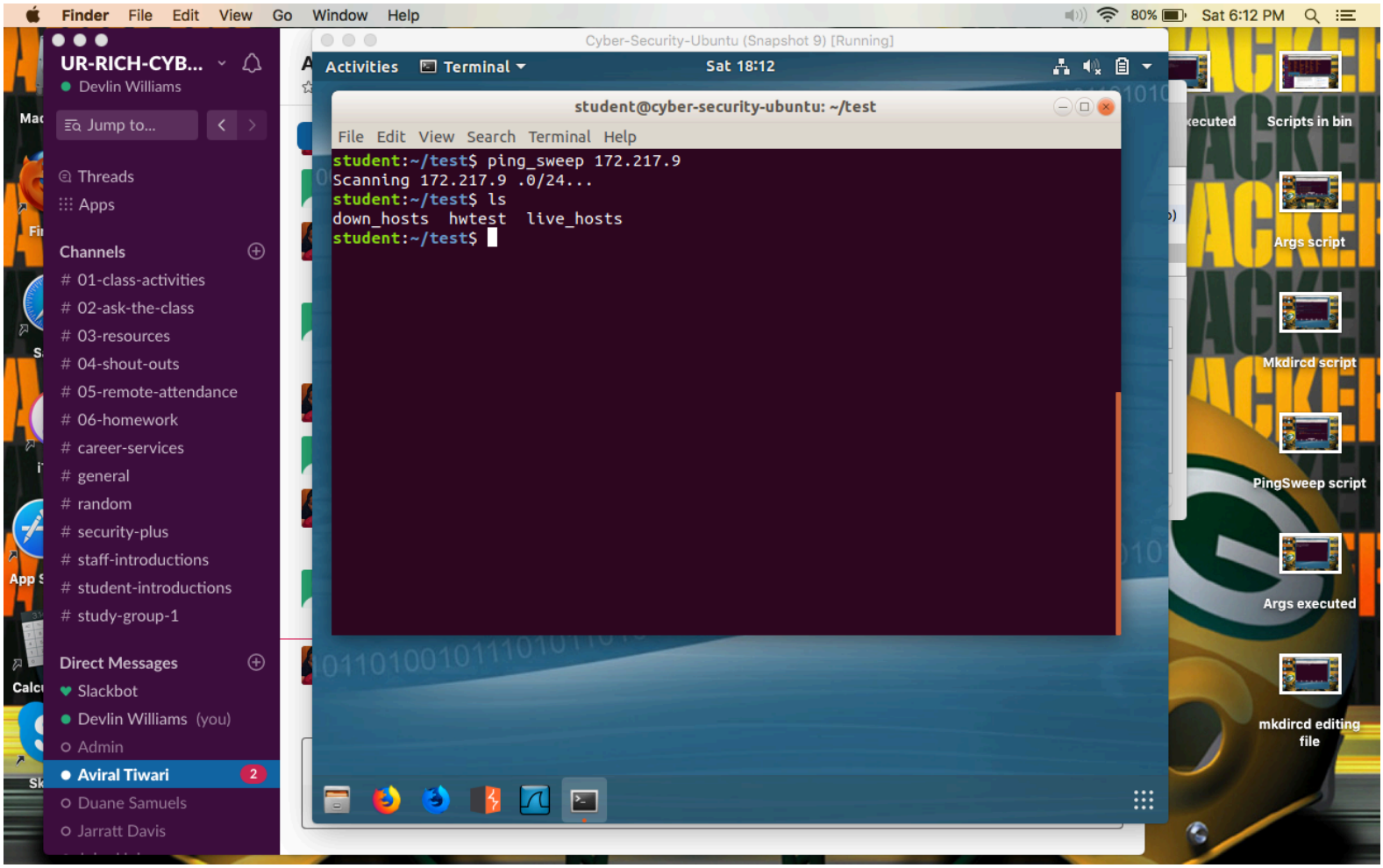
Here I am showing the new folder added to the user "student" home directory. I move into the folder and use a cat command to show the text from the earlier file.



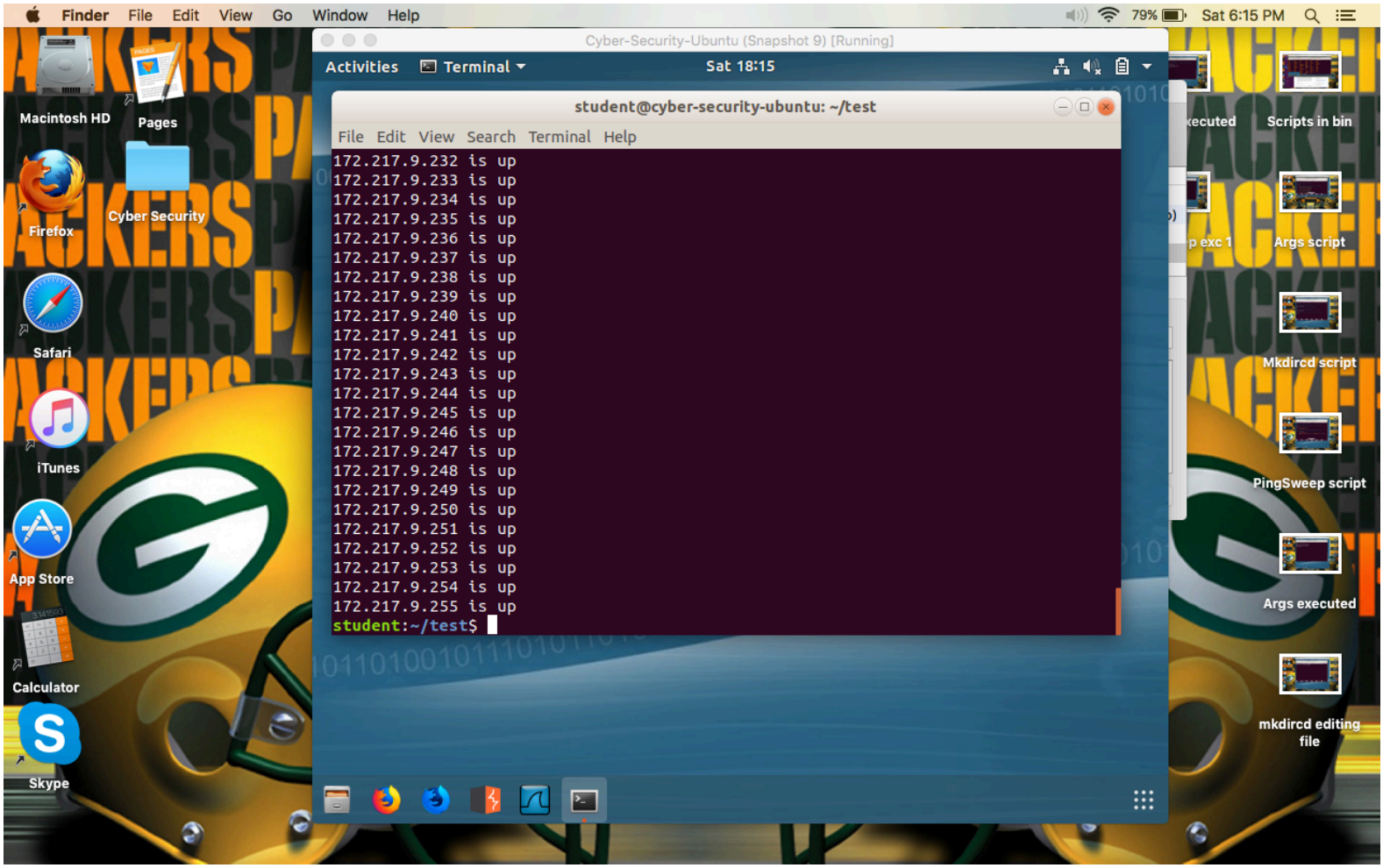
Here I am showing the script for the ping_sweep command. I am creating the variable PREFIX to use the user's first argument after running the command, in this case would be an IP address. Next I echo the scanning message. Finally I create a for loop so that IP address that the user enters will iterate through .1 to .255 and ping each address. The prefix variable from earlier will be combined with a seq variable ranging from 1 to 255 to create the IP addresses that will be pinged. I utilize "&>/dev/null" to send any information from ping command to the /dev/null file. If the address is live and up the message "$TARGET is up" will go to file called live_hosts but if the IP address is down the message "$TARGET is down" will go to a file called down_hosts.



Here I am showing the two files, down_hosts and live_hosts, being created in the user "student" home directory within the test subdirectory from the mkdircd command.



Here I am showing some of the IP addresses withing the live_hosts file.



Here I am showing some of the IP addresses that were in the down file.