# Assignment 1

Karim Ahmed

CIS220

Spring2022

## Question 1

Fill out the following table by explaining what each command will do?

|  |  |
| --- | --- |
| **Command** | **What does it do?** |
| chmod u+rw *MyTest.txt* | Give user read and write permission to MyTest.txt file |
| chmod a-w *public.txt* | Remove write permission from all users for public.txt file |
| chmod -R g+rx Documents | Give group read and execute permission recursively for all the files inside of Documents directory. |
| chmod u=rw,g=,o= CIS220*.txt* | Give user read and write permission, and no permissions for group and others to CIS220.txt file |
| chmod 764 *global.txt* | Give user read, write, and execute permission.  Give Group read and write permission.  Give others read permission  For global.txt file |
| chmod 740 *Show\_myfiles.sh* | Give read, write, and execute permission to user.  Give read permission to group  For Show\_myfiles.sh |

## Question2:

Compare and contrast iOS to android in term of their security features. Pick two apps in the same platform (IOS or Android) and comment on various security measures that you can find in the Apps. The features can be anything related to (CIA of security).

* The two applications that I will be discussing are Facebook apps (Facebook, Instagram, and WhatsApp) and TeamViewer.
* Apple’s algorithm checks all applications’ code before it is uploaded to their App store, which makes it difficult for companies that try to gather user data without their consent. On February 3rd, 2022, Apple took serious measures to ban Facebook applications from tracking their users across multiple applications and websites (which is the main source of profit for Facebook advertising). Apple always values their users’ privacy, and this is the case across all Apple Operating Systems. Facebook estimated a loss of 10 billion in 2022 because of Apple’s new security updates in IOS.
* Facebook will continue to track users who use their applications on Android devices across multiple applications and websites.
* TeamViewer allows users to control devices remotely from any operating system.
* In Android and IOS, many users reported that they got scammed through TeamViewer. In most cases, the user would get contacted by a scammer who identifies themself as a government personnel and ask the user to download the app and give them access to their device. Once this happens, the scammer gets full access of the host’s device. The application itself is not designed to be used for malicious purposes. However, it has been reportedly used by scammers to steal information. There have been no security measures taken by IOS or Android against this kind of application. It is debatable here that the main problem is user awareness.

## Question 3:

For each of the following write a shell script that does the job. Save the file as firstnamelastnameX.sh. X is a number according to the numbering below

1. Write a shell script that print the current working directory using the PWD command.



1. Write a shell script that list all the files in the current working directory. Bonus point if you use a loop to print each file name in a separate line

Text

Description automatically generated

1. Write a shell script that read two numbers from the user x and y and print
   1. x+y
   2. x-y
   3. x/y

Text

Description automatically generated

Submit your scripts in a zipfolder (firstnameLastname.zip). Paste a screen shot for each execution from the terminal (paste the screen shots in this word documents)

## Question 4:

This is your time to shine! Write your own shell script. The program should have

1. At least 4 lines (colon won’t count!)
2. Should utilize a control structure (loop, condition, etc).
3. Define variables
4. Optional: user input, argument passing and command execution

Submit your code along with a screenshot of the script and the execution.

Text

Description automatically generated

Text, letter

Description automatically generated