Exercise 1 – Cryptography

Download and install gpg4win (Cleopatra)

<https://www.gpg4win.org/>

(Mac users: <https://gnupg.org/download/>)

(you don’t have to donate, select $0)

BEFORE running the install, verify the hash value of the downloaded file:

certutil -hashfile <file path/file name> SHA256

QUESTION 1: Why do you verify the hash? What should you do if the hash does not match?

Create a PERSONAL key pair

Use your name and CSCC email

Under Advanced, set the expiration date to Jan 1 2019.

When setting your password, DO NOT FORGET it. Write it down for the rest of the upcoming exercises.

QUESTION 2: What does this password protect?

Click through to finish key creation.

You should see your key in the Cleopatra Window. Right click and click on “Details”.

Click on Export. Copy the ASCII armored text to a text file on your USB drive.

Copy the “Fingerprint” value and email it to me ([kking83@cscc.edu](mailto:kking83@cscc.edu))

NOTE: I need to have all your fingerprints back no later than noon on 11/5 so I have time to create the next exercise.

This completes the first exercise.