

Informatics
CSCI 1110
Lab 09

- Contact your instructor with your questions about the assignments.
- The student must insure all the answers are free from any malware.
- The student must insure all answers are legal as defined by the class syllabus.
- All parts of your answers must be neat and easy to read.
- Paragraphs are at least four properly constructed English sentences.
- Embedding documents within documents does not work with the D2L Bright Space assignments.
- Plagiarism will not be tolerated.

Lab 09: Security and Privacy

- 9.1. Each part is worth six points for a maximum of twenty-five points. Upload each section answer to the D2L Bright Space Assignment section 9.1 before the due date found in the 1110a.pdf document. The text must be readable by the instructor. Submit a Portable Document Format (PDF) or word processing file containing your answers.
 - 9.1.1. Provide evidence of encrypting a volume or disk with at least 10 files. You must use an operating system independent system. The system must use symmetric encryption. [8 points]
 - 9.1.2. Provide an explanation on how to decrypt files on the volume. [8 points]
 - 9.1.3. In a paragraph, who may have your private key based on your personal ethics and the legal code of a country of your choice. [8 points]
 - 9.1.4. Identify if an AI type program was used to complete this lab section. If an AI program is used, identify the AI system used. [1 point]
- 9.2. Each part is worth six points for a maximum of twenty-five points. Upload each section answer to the D2L Bright Space Assignment section 9.2 before the due date found in the 1110a.pdf document. The text must be readable by the instructor. Submit a Portable Document Format (PDF) or word processing file containing your answers.
 - 9.2.1. Provide evidence of a successful full backup of your smart phone/tablet home directory to remote media. [6 points]
 - 9.2.2. Provide an explanation how to restore a file from your remote media backup to your smart phone/tablet. [6 points]
 - 9.2.3. Provide your source(s) of information on how to backup and restore your phone. [6 points]
 - 9.2.4. In a paragraph, who may have access to your backup. Support your answer from recognized ethics document. [6 points]
 - 9.2.5. Identify if an AI type program was used to complete this lab section. If an AI program is used, identify the AI system used. [1 point]
- 9.3. This section is one document. Each part is worth four points for a maximum of twenty-five points. Upload each section answer to the D2L Bright Space Assignment section 9.3 before the due date found in the 1110a.pdf document. The text must be readable by the instructor. Submit a Portable Document Format (PDF) or word processing file containing your answers.
 - 9.3.1. Create a file named **snuffy-“your name”.html** in your documents folder. It is optional to put content in the included file. [4 points]
 - 9.3.2. Create and show an encrypted backup of your documents folder. Identify the storage location of the encrypted backup. This may not be a permanently attached media. [4 points]
 - 9.3.3. Produce a directory listing with date and time report showing the file **snuffy-“your name”.html** is gone (deleted). [4 points]
 - 9.3.4. Provide the steps you followed to restore **snuffy-“your name”.html** from your encrypted backup. [4 points]
 - 9.3.5. Produce a directory listing with date and time report showing the file **snuffy-“your name”.html** is back (restored). [4 points]
 - 9.3.6. In a paragraph, who may have access to your encrypted backup based on your personal ethics and the legal code of a country of your choice. [4 points]
 - 9.3.7. Identify if an AI type program was used to complete this lab section. If an AI program is used, identify the AI system used. [1 point]
- 9.4. Each part is worth six points for a maximum of twenty-five points. Upload each section answer to the D2L Bright Space Assignment section 9.4 before the due date found in the 1110a.pdf document. The text must be readable by the instructor. Submit a Portable Document Format (PDF) or word processing file containing your answers.
 - 9.4.1. Review the HTML code for a web site in the .com domain for the following. [8 points]
 - 9.4.1.1. List the number of “http” in the document.
 - 9.4.1.2. List the number of “https” in the document.

- 9.4.1.3. Provide the URL of the site.
- 9.4.2. Provide a list of who may or may not have access to all data on your local device in an unencrypted form. This includes family members, friends, governments, and data aggregation companies. [8 points]
- 9.4.3. Provide the URL or a complete copy of a nationally recognized ethics statement that supports your position. [8 points]
- 9.4.4. Identify if an AI type program was used to complete this lab section. If an AI program is used, identify the AI system used. [1 point]