- 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.
- Unless noted, all lab sections must be done as unprivileged login.

Lab06: Chapter 9: Flash and Removable Storage

6.1. Upload your document to the D2L Bright Space Assignment section 6.1 before the due date found in the 1122a.pdf document.
- 6.1.1. Provide the following information for magnetic media in a PDF file. [8 points]
  - 6.1.1.1. Identify the manufacturer, model, and interface of magnetic disk drive.
  - 6.1.1.2. Provide directions to securely erase the drive.
  - 6.1.1.3. Provide the URL to your sources of information and any utilities you list. [8 points]
- 6.1.2. Provide the following information for a USB drive in a PDF file.
  - 6.1.2.1. Identify the manufacturer, model, and interface of USB drive.
  - 6.1.2.2. Provide directions to securely erase the drive.
  - 6.1.2.3. Provide the URL to your sources of information and any utilities you list. [8 points]
- 6.1.3. Provide the following information for a SSD drive in a PDF file.
  - 6.1.3.1. Identify the manufacturer, model, and interface of SSD drive.
  - 6.1.3.2. Provide directions to securely erase the drive.
  - 6.1.3.3. Provide the URL to your sources of information and any utilities you list.
- 6.1.4. 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]

6.2. Upload your document to the D2L Bright Space Assignment section 6.2 before the due date found in the 1122a.pdf document.
- 6.2.1. Create a list of all USB interface types in a PDF file with the following information. [24 points]
  - 6.2.1.1. Identify the USB version.
  - 6.2.1.2. Provide a picture (not embedded) of the interface for the version.
  - 6.2.1.3. Provide the speed of the USB version.
  - 6.2.1.4. Provide any notes about the cables for the version.
  - 6.2.1.5. Provide the URL of information about the version.
- 6.2.2. 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]

6.3. Upload your document to the D2L Bright Space Assignment section 6.3 before the due date found in the 1122a.pdf document.
- 6.3.1. Select a working Windows or Macintosh system to complete the following. [12 points]
  - 6.3.1.1. Provide directions on how to backup all the files in all home directories in a PDF file.
  - 6.3.1.2. Provide evidence all the home directory files are backup to independent media in a PDF file.
  - 6.3.1.3. Provide directions on how to restore a single file from the backup to a folder named "restore2" in a PDF file.
  - 6.3.1.4. Provide evidence of restoring a single file from the backup to "restore2" directory. [12 points]
- 6.3.2. Select a working Linux system to complete the following.
  - 6.3.2.1. Provide directions on how to back up all the files in all home directories in a PDF file.
  - 6.3.2.2. Provide evidence all the home directory files are backup to independent media in a PDF file.
  - 6.3.2.3. Provide directions on how to restore a single file from the backup to a folder named "restore2" in a PDF file.
  - 6.3.2.4. Provide evidence of restoring a single file from the backup to "restore2" directory.
- 6.3.3. 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]

6.4. Upload your document to the D2L Bright Space Assignment section 6.4 before the due date found in the 1122a.pdf document.
- 6.4.1. Document completion of "Lesson 4: Making the Buzzer go BEEP."

6.4.1.1. Provide a copy of the source code in a text file that includes the following. [8 points]
- 6.4.1.1.1. The purpose of the code.
- 6.4.1.1.2. All sources of help with the code.
- 6.4.1.1.3. Your name and code creation date.
- 6.4.1.1.4. The complete source code according with the lab instructions.

6.4.1.2. Provide a copy of the source code in a text file that includes the following. [8 points]
- 6.4.1.2.1. The purpose of the code.
- 6.4.1.2.2. All sources of help with the code.
- 6.4.1.2.3. Your name and code creation date.
- 6.4.1.2.4. The complete source code with a modification you made. Identify the modification.
- 6.4.1.2.5. Identify if your modification did or did not work. Explain what did happen.

6.4.1.3. Provide a copy of serial monitor during both source code version in a PDF file.

6.4.2. 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]