- Contact your instructor with your questions about the assignments.
- The student must insure all the answers are free from any malware.
- The student must ensure 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.
- Labeling answers is highly recommended.

7. **Lab07: Computer Hardware**
   7.1. Upload each answer to the D2L Bright Space Assignment section 7.1 before the due date found in the 1122a.pdf document. Submit a Portable Document Format (PDF) or word processing file containing the following.
       7.1.1. Identify two different AMD processors, provide the processor specifications, supported operating systems, and the URL of all information sources in a PDF file.
       7.1.2. Identify two different Intel processors, provide the processor specifications, supported operating systems, and the URL of all information sources in a PDF file.
       7.1.3. Identify two different ARM processors, provide the processor specifications, supported operating systems, and the URL of all information sources in a PDF file.
       7.1.4. Identify two different RISC V processors, provide the processor specifications, supported operating systems, and the URL of all information sources in a PDF file.
       7.1.5. Identify if an AI type program was used to complete this lab section. If an AI program is used, identify the AI system used.

   7.2. Upload each answer to the D2L Bright Space Assignment section 7.2 before the due date found in the 1122a.pdf document. Submit a Portable Document Format (PDF) or word processing file containing the following.
       7.2.1. Select an AMD processor and a known error in that processor. Provide the following.
           7.2.1.1. Identify the error.
           7.2.1.2. Explain how the error works.
           7.2.1.3. Explain how the error may be exploited.
           7.2.1.4. Explain how the processor works without errors.
           7.2.1.5. Provide your source(s) of information
       7.2.2. Select an Intel processor and a known error in that processor. Provide the following.
           7.2.2.1. Identify the error.
           7.2.2.2. Explain how the error works.
           7.2.2.3. Explain how the error may be exploited.
           7.2.2.4. Explain how the processor works without errors.
           7.2.2.5. Provide your source(s) of information
       7.2.3. Select an ARM processor and a known error in that processor. Provide the following.
           7.2.3.1. Identify the error.
           7.2.3.2. Explain how the error works.
           7.2.3.3. Explain how the error may be exploited.
           7.2.3.4. Explain how the processor works without errors.
           7.2.3.5. Provide your source(s) of information
       7.2.4. Identify if an AI type program was used to complete this lab section. If an AI program is used, identify the AI system used.

   7.3. Upload each answer to the D2L Bright Space Assignment section 7.2 before the due date found in the 1122a.pdf document.
       7.3.1. Submit a Portable Document Format (PDF) or word processing file containing the following.
           7.3.1.1. The computer manufacturer, model, and serial number.
           7.3.1.2. A picture of the main board with identification of the CPU or fan.
           7.3.1.3. The output of a program provides only CPU information.
           7.3.1.4. Provide the flags for the listed CPU with definitions.
           7.3.1.5. Provide a URL explaining a CPU vulnerability listed for the CPU.
       7.3.2. Submit the entire text file of the source code including the following.
           7.3.2.1. The remarks identify the purpose, outside help credit, author, and creation date.
           7.3.2.2. Reporting all possible information about the CPU to an output file.

7.3.3.Submit the entire text file containing the CPU output file data.

7.3.4.Identify if an AI type program was used to complete this lab section. If an AI program is used, identify the AI system used.

7.4.  Upload each answer to the D2L Bright Space Assignment section 7.4 before the due date found in the 1122a.pdf document. Complete the "Lesson 06 section".

7.4.1.Submit a Portable Document Format (PDF) or word processing file containing the following.

7.4.1.1.     Provide a copy of the serial plotter with at least four light changes during code operation.

7.4.2.Submit the entire text file of the source code for the lesson including the following.

7.4.2.1.     The remarks identify the purpose, outside help credit, author, and creation date.

7.4.2.2.     Entire code for the lesson.

7.4.3.Identify if an AI type program was used to complete this lab section. If an AI program is used, identify the AI system used.