- 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. Put your answer in a single document.
        7.1.1. Identify two different AMD processors, provide the processor maximum speed, 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 maximum speed, 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 maximum speed, 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 maximum speed, 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. Put your answer in a single document.
        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. 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. 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. 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 the entire text file of the source code including the following.
            7.3.1.1. The remarks identify the purpose, outside help credit, author, and creation date.
            7.3.1.2. Report the hostname to the output file.
            7.3.1.3. Reporting all possible information about the CPU to the output file.
        7.3.2. Submit the written script entire text file containing the CPU output file data from host 01
        7.3.3. Submit the written script entire text file containing the CPU output file data from host 02
        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: Sound Sensitive LED Light".

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

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

        7.4.1.2.   Entire code for the lesson.

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

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

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

        7.4.3.2.   Entire code for the lesson.

        7.4.3.3.   A modification to the code operation you made.

        7.4.3.4.   An explanation of the modification impact on the Arduino.

    7.4.4. Provide a copy of the serial plotter with at least four light changes during code operation using your modified code.

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