System Maintenance
CPTR 1122
Lab 03

- 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.

Lab03: Chapter 4: Motherboards and Buses & Chapter 5: BIOS

3.1. Upload your document to the D2L Bright Space Assignment section 3.1 before the due date found in the 1122a.pdf document.
  3.1.1. Select a working lab or similar computer to gather the following information. [12 points]
    3.1.1.1. The computer manufacturer, model, and serial number in a text file.
    3.1.1.2. The BIOS/UEFI version listed and directions how to enter BIOS/UEFI in a text file.
    3.1.1.3. Provide a screenshot, not embedded in a PDF showing each screen of BIOS/UEFI settings on the identified system.
  3.1.2. Use the class Linux virtual machine or approved virtual machine for the following. [12 points]
    3.1.2.1. The computer manufacturer, model, serial number, and virtual machine version in a text file.
    3.1.2.2. The BIOS/UEFI version listed and directions how to enter BIOS/UEFI in a text file.
    3.1.2.3. Provide a screenshot, not embedded in a PDF showing each screen of BIOS/UEFI settings on the identified system.
  3.1.3. 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]

3.2. Upload your document to the D2L Bright Space Assignment section 3.2 before the due date found in the 1122a.pdf document.
  3.2.1. Select a working lab or similar computer to gather the following information. [24 points]
    3.2.1.1. The computer manufacturer, model, and serial number in a text file.
    3.2.1.2. A jpeg picture of the main board with identification of the expansion slots.
    3.2.1.3. Provide identification of each expansion slot and the type of expansion slot in the picture.
    3.2.1.4. Provide the URL of an expansion card that will work in at least one of the slots in the picture in a PDF file.
    3.2.1.5. Explain how you know the expansion card will work in the slot identified in a PDF.
  3.2.2. 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]

3.3. Upload your document to the D2L Bright Space Assignment section 3.3 before the due date found in the 1122a.pdf document.
  3.3.1. Obtain a picture from your instructor.
  3.3.2. Create directions to recreate the picture for a photograph.
  3.3.3. Provide a text only without any graphics explaining how to create an exact copy of the picture. [24 points]
  3.3.4. Identify if an AI type program was used to complete this lab section. If an AI program is used, identify the AI system used. [1 point]

3.4. Upload your document to the D2L Bright Space Assignment section 3.4 before the due date found in the 1122a.pdf document.
  3.4.1. Document completion of "Lesson 1: Blinking with the LED."
    3.4.1.1. Provide a copy of the source code in a text file that includes the following. [8 points]
      3.4.1.1.1. The purpose of the code.
      3.4.1.1.2. All sources of help with the code.
      3.4.1.1.3. Your name and code creation date.
      3.4.1.1.4. The complete source code according with the lab instructions.
    3.4.1.2. Provide a copy of the source code in a text file that includes the following. [8 points]
      3.4.1.2.1. The purpose of the code.
      3.4.1.2.2. All sources of help with the code.
      3.4.1.2.3. Your name and code creation date.
      3.4.1.2.4. The complete source code that modifies 2 seconds on and 3 seconds off.

3.4.1.3. Provide jpeg picture of the LED lite. [8 points]

3.4.2. 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]