

System Maintenance
CPTR 1122
Lab 04

- 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.

Lab04: Chapter 6: Memory

- 4.1. Each part is worth twelve points for a maximum of twenty-five points. Upload your document to the D2L Bright Space Assignment section 4.1 before the due date found in the 1122a.pdf document.
 - 4.1.1. Select a working lab or similar computer to gather the following information. [12 points]
 - 4.1.1.1. The computer manufacturer, model, and serial number in a text file.
 - 4.1.1.2. The amount and type of RAM installed in a text file.
 - 4.1.1.3. A jpeg picture of the main board with identification of the RAM and RAM type.
 - 4.1.2. Use the class Linux virtual machine or approved virtual machine for the following. [12 points]
 - 4.1.2.1. The computer manufacturer, model, and serial number in a text file.
 - 4.1.2.2. The amount and type of RAM installed in a text file.
 - 4.1.2.3. A jpeg picture of the main board with identification of the RAM and RAM type.
 - 4.1.3. 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]
- 4.2. The video must be viewable by the current version of VLC. Upload your answer(s) to the D2L Bright Space Assignment section 4.2 before the due date found in the 1122a.pdf document.
 - 4.2.1. Select a working lab or similar computer to create a short video (no more than 10 minutes in length) showing the following. [12 points]
 - 4.2.1.1. Demonstration the computer is functioning.
 - 4.2.1.2. Demonstration of proper ESD protection.
 - 4.2.1.3. Demonstrate proper parts management.
 - 4.2.1.4. Demonstrate removal of all RAM.
 - 4.2.1.5. Demonstrate the installation of all RAM.
 - 4.2.1.6. Demonstration the computer is functioning properly.
 - 4.2.2. The video must include the face of the single individual getting lab section credit. Multiple faces will result in no credit for any individuals. [12 points]
 - 4.2.3. 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]
- 4.3. Upload your document to the D2L Bright Space Assignment section 4.3 before the due date found in the 1122a.pdf document.
 - 4.3.1. Provide a list of at least three different Linux/BSD/UNIX distributions in a PDF file with the following information. [8 points]
 - 4.3.1.1. The URL of the distribution's main site.
 - 4.3.1.2. The URL of the distribution's download site.
 - 4.3.1.3. Quote the distribution main site of the main features of the distribution.
 - 4.3.2. Provide a version of Windows in a PDF file with the following information. [8 points]
 - 4.3.2.1. The URL of an official site describing the version.
 - 4.3.2.2. Quote the site of the main features of the distribution.
 - 4.3.3. Provide a version of Macintosh in a PDF file with the following information. [8 points]
 - 4.3.3.1. The URL of an official site describing the version.
 - 4.3.3.2. Quote the site of the main features of the distribution.
 - 4.3.4. 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]
- 4.4. Upload your document to the D2L Bright Space Assignment section 4.4 before the due date found in the 1122a.pdf document.
 - 4.4.1. Document completion of "Lesson 2: Pressing Button to Light Up LED."
 - 4.4.1.1. Provide a copy of the source code in a text file that includes the following. [8 points]

- 4.4.1.1.1. The purpose of the code.
- 4.4.1.1.2. All sources of help with the code.
- 4.4.1.1.3. Your name and code creation date.
- 4.4.1.1.4. The complete source code according with the lab instructions.
- 4.4.1.2. Provide a copy of the source code in a text file that includes the following. [8 points]
 - 4.4.1.2.1. The purpose of the code.
 - 4.4.1.2.2. All sources of help with the code.
 - 4.4.1.2.3. Your name and code creation date.
 - 4.4.1.2.4. The complete source code with a modification you made. Identify the modification.
 - 4.4.1.2.5. Identify if your modification did or did not work. Explain what did happen.
- 4.4.1.3. Provide jpeg picture of the button pushed and LED lite. [8 points]
- 4.4.2. 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]