- 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.

5. **Lab 05: Information Systems and System Development**
   5.1. Upload each answer to the D2L Bright Space Assignment section 5.1 before the due date found in the 1110a.pdf document. Submit a Portable Document Format (PDF) or word processing file containing only the following. Put your answer in a single document.
      5.1.1. Provide a list of at least five different programming languages. Provide an authoritative URL describing each language.
      5.1.2. Provide evidence of completing one full section of a programming language you do not know.
      5.1.3. Provide a complete sample of a program selected printing your name to the screen.
      5.1.4. Identify if an AI type program was used to complete this lab section. If an AI program is used, identify the AI system used.

   5.2. Upload each answer to the D2L Bright Space Assignment section 5.2 before the due date found in the 1110a.pdf document.
      5.2.1. Create a word processing document correctly formatted with at least five variables for a mail merge. Upload a copy of the word processing document in native format.
      5.2.2. Create a spreadsheet or database with at least three different values for each of the variables for the mail merge. You must use all your assigned names from the names1.pdf file.
      5.2.3. Create a word processing document with the results of performing the mail merge. Each section of variables must be on a separate page.
      5.2.4. Create a word processing document explaining how you could use mail merge.
      5.2.5. Identify if an AI type program was used to complete this lab section. If an AI program is used, identify the AI system used.

   5.3. Upload each answer to the D2L Bright Space Assignment section 5.3 before the due date found in the 1110a.pdf document. Submit a Portable Document Format (PDF) or word processing file containing only the following. Put your answer in a single document.
      5.3.1. Create a rule or script to process a type of email with one action. Show the complete format of the rule.
      5.3.2. Provide evidence the previous rule works correctly.
      5.3.3. Explain exactly what the entire rule does do.
      5.3.4. Explain how you could use email rules.
      5.3.5. Identify if an AI type program was used to complete this lab section. If an AI program is used, identify the AI system used.

   5.4. Upload each answer to the D2L Bright Space Assignment section 5.4 before the due date found in the 1110a.pdf document. Submit a Portable Document Format (PDF) or word processing file containing only the following. Put your answer in a single document.
      5.4.1. Provide evidence all the files in your documents folder are backup to a local USB device. This may not be a backup from a previous lab.
      5.4.2. Provide detailed written directions on how to perform the backup. Each step, mouse click, and answer must be in a separate sentence or bullet point.
      5.4.3. Provide detailed written directions on how to perform a restore. Each step, mouse click, and answer must be in a separate sentence or bullet point.
      5.4.4. Provide a schedule for performing backups.
      5.4.5. Identify if an AI type program was used to complete this lab section. If an AI program is used, identify the AI system used.