CSL503: Computer Systems Engineering

Lab-4: Practice Problems (LaTeX)
Date: 27-August-2023

Instructions:

1. Try to complete lab problems during the lab hour and submit it through canvas. If you can't complete it within the lab time, you can submit it by the end of today. There will be a penalty if you don't submit on the same day.
2. Prepare all your solution files in a zip file and name it as <ROLLNO.zip> and submit on canvas.

Setting up LaTeX:

Please follow the below instructions to set up LaTeX in your laptop.

1. sudo apt update
2. sudo apt install texlive-latex-extra -y
3. sudo apt install texstudio

Problem-1:

1. Create a simple latex file with the following format
    a. Use article format
    b. Create your own title, date, author name as your name
    c. Create 4 Sections
2. Section-1 (Simple Text)
    a. Create a simple text of of the following content
    In March 2006, Congress raised that ceiling an additional $0.79 trillion to $8.97 trillion, which is approximately 68% of GDP. As of October 4, 2008, the "Emergency Economic Stabilization Act of 2008" raised the current debt ceiling to $11.3 trillion.
3. Section-2 (Mathematical expression)
    a. Write down equation (2) and (3) present in the research paper https://arxiv.org/pdf/1706.02216.pdf. These equations are present in page 5 and 6 respectively.
    b. Write it in words about the equation by referring through labels.
4. Section-3: (Image)
    a. Include an image of your choice; with a caption.
    b. Put the image in center
    c. Describe above in text by referring to the image.
5. Section-4: (Table)
    a. Create a table listing your education qualifications and write the caption.
    b. It should have 4 columns, Degree, Name of the school/college, Marks in Percentage, year of passing.
6. Put the following references in your document and cite them in your text.
    a. Graph Convolutional Neural Networks for Web-Scale Recommender Systems
    b. Sampling from large graphs