

## **CS100: Software Tools & Technologies Lab I**

### **Lab-5: Practice Problems (LaTeX)**

**Date: 26-April-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 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 a simple mathematical equation  $1+2+3+\dots+n = n(n+1)/2$
  - b. Write it in words about the equation
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.
  - b. It should have 4 columns, Degree, Name of the school/college, Marks in Percentage, year of passing.