

**CS 213: System Software Lab**  
**Autumn 2023, IIT Dharwad**  
**Assignment-3**  
**LaTeX**

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**Objective:** Generate a LaTeX document in the "article" format and replicate the formatting and content layout found in the provided document (i.e., sample\_output.pdf).

Your LaTeX document (of article type) should contain the following as in the provided document.

- Title
- Author
- Email
- Date
- Table of contents
- List of figures
- List of tables
- Multiple sections including
  - One mathematical section, consisting of
    - Inline mathematical expression
    - Non-numbered equation in dedicated line
    - Numbered equation in dedicated line
    - Matrices
    - Square root
    - Summation
    - Integration
    - Nested brackets
  - Tables
  - Figures
  - Lists (itemize, enumerate, description)
  - Font styles (bold, italics, teletype fonts, etc.)
  - Color (text color, text background, page color)
  - Pseudo code of quick sort algorithm
  - References (at least 5)

**[Note: All the files required to be included in the LaTeX document are attached]**

**Instructions:**

- Posted on: 11 Sept 2023
- Due date: 17 Sept 2023(11:59PM)
- Suggested files (.bib, .png, .jpg, and .pdf) are provided in the moodle as well as in the drive folder.
- Mode of submission is moodle. Any other kind of submissions are not accepted.
- Please submit only the “main.tex” file, named as "<roll-no>.zip", where <roll-no> should be replaced with your IIT Dharwad roll number.
- To be considered for the evaluation without penalty, you have to submit your program by the due date. No single minute relaxation on late submission.
- *Copying others' programs and allowing others to copy your program are serious offenses and a deserving penalty(100%) will be imposed if found.*