

Lab Manual 3

Course Code: CS-165L

Course Title: Software Engineering

Course Instructor: Laeeq Khan Niazi

Last Week tasks progress?

What is latex?

LaTeX (pronounced "LAY-tek" or "LAH-tek") is a typesetting system commonly used for creating documents that require precise formatting, such as research papers, academic articles, theses, reports, and books. It is particularly popular in the fields of mathematics, science, engineering, and academia, but it can be used for a wide range of document types.

What is overleaf?

Overleaf is an online collaborative platform for writing, editing, and publishing documents using LaTeX, a typesetting system commonly used for scientific and technical documents. It provides a web-based interface that allows users to create and work on LaTeX documents without the need to install LaTeX software on their local computers.

Overleaf documentation

<https://www.overleaf.com/learn> Follow the link for overleaf documentation guide.

Tasks and create project lab report for every task with screenshot.

1. Create an account on Overleaf.
2. Explore the types of templates available in the template section.
3. Create a blank project.
4. Write your name, roll number, and subject name on the document.
5. Apply formatting options such as bold, underline, and italics to the text.
6. Change the font of your text.
7. Add page numbers to your document.
8. Create ordered and unordered lists of sweet dishes and laptop company names, respectively.
9. Write the following mathematical expression: $x + y^2$.
10. Use parentheses () and curly braces {} to write the following expression: $\{5 + 6 * (x + y)\}$
11. Write the followings.

$$\begin{bmatrix} 1 & 2 & 3 \\ a & b & c \end{bmatrix}$$

1.

$$\begin{matrix} 1 & 2 & 3 \\ a & b & c \end{matrix}$$

2.

12. Write the following expression

$$\int_a^b x^2 dx$$

1.

$$\lim_{x \rightarrow \infty} f(x)$$

2.

$$\sum_{n=1}^{\infty} 2^{-n} = 1$$

3.

13. Make the following table with data of student roll number, name, cgpa and gender.

Country List			
Country Name or Area Name	ISO ALPHA 2 Code	ISO ALPHA 3 Code	ISO numeric Code
Afghanistan	AF	AFG	004
Aland Islands	AX	ALA	248
Albania	AL	ALB	008
Algeria	DZ	DZA	012
American Samoa	AS	ASM	016
Andorra	AD	AND	020
Angola	AO	AGO	024

14. Add the picture in your document.

15. Position your picture in the center of your document page.

16. Final task → **Create your professional CV in overleaf.**

Note: Submit your lab report and your final above tasks document and CV document on google classroom before deadline.