Assignment: Introduction to LaTeX

Muhammad Musawar Ali Shah

November 19, 2024

Contents

1	Introduction	
2	Instructions Specific to You	2
3	Equations 3.1 The quadratic Equation	2 2 2
4	Tables	
5	References	

1 Introduction

LaTeX is a typesetting system widely used for creating documents in scientific and technical fields. It allows precise control over document structure, making it ideal for complex documents with mathematical equations, tables, and figures. Unlike traditional word processors, LaTeX is more flexible and produces high-quality, publication-ready documents.

2 Instructions Specific to You

ASCII Sequence of Your Name

The ASCII sequence of "Muhammad Musawar Ali Shah" is:

 $77\ 117\ 104\ 97\ 109\ 109\ 97\ 100\ 32\ 77\ 117\ 115\ 97\ 119\ 97\ 114\ 32\ 65\ 108\ 105\ 32\ 83\ 104\ 97\ 104$

Registration Number

Here are custom symbols for my initials:

 \mathcal{M} S

3 Equations

3.1 The quadratic Equation

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a} \tag{1}$$

3.2 A summation formula for the sum of first n positive integers

$$S = \sum_{k=1}^{n} k = \frac{n(n+1)}{2} \tag{2}$$

ASCII Code

$$M = 77$$
 $U = 117$ $S = 115$ $A = 97$ $W = 119$ $A = 97$ $R = 114$ (3)

4 Tables

Table 1: Comparison between LaTeX and word processor

Table 1. Comparison between Eartest and word processor				
Feature	LaTex	Word Processor		
Document control	High control over layout	Limiting, WYSIWYG ap-		
	and formatting	proach		
Equation formatting	Specialized packages for	Limited support for equa-		
	complex equations	tions		
Output Quality	Publication-ready	Variable quality		

5 References

- 1. LaTeX Beginners Guide: u=117, a=97, a=97
- 2. Online tutorial: LaTeX for Students A Simple Quickstart Guide
- 3. Learn LaTeX Tutorial (1): Basic Compiling, Titles, Sections, Formatting and Syntax