Latex Certificate Course Instructions

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1 Free software

LaTeX is a free-software. And is currently maintained by TUG (TeX User's Group), an online community of volunteers.

There is a significant difference between open source and free software. You won't have the freedom to sell open source softwares. But, free softwares comes with complete freedom – free has nothing to do with the price. Thus, you may make changes for your purpose or sell copies of that software.

2 Commands

"How could we use symbols that are not available on Keyboard?" is an important question. LaTeX uses commands for this purpose. LaTeX commands starts with a backslash symbol. For example: \LaTeX prints LaTeX.

3 Sectioning Commands

- \chapter not available for article document class
- ullet \section 1^{st} Level Heading
- \subsection 2^{nd} Level Heading
- \subsubsection 3^{rd} Level Heading
- \paragraph 4^{th} Level Heading
- \subparagraph 5^{th} Level Heading

Starred Variants

4 Errors

Errors are the most difficult part for a beginner. Even with error reports, it is not always easy to recognise errors in your LATEX source file. A simple technique for efficiency is to detect errors early. This can be achieved by compiling the file frequently.

The word following backslash is supposed to be a LaTeX command. If the command is already known, then LaTeX will take the necessary action. And if a command is not defined, LATEX will fail to do anything further and will return an error message.

Another important thing is the begin and end commands with 'document' argument. Your document content should be between those two lines. Anything before 'begin-document' or after 'end-document' are not printed.

Case Sensitive

LATEX is case-sensitive. "What does it mean?" LATEX treats uppercase letters and lower case letters differently. Thus, you should use exactly the same command, without even changing the case. For example, \begin{Document} instead of \begin{document} will give an error.

Command completion feature

Once again, it is a difficult thing for beginners to remember commands. But, there are many softwares that offer command-completion feature. And the LaTeX manuals, cheatsheets, videos and other documentations are quite abundant these days.

Special symbols

LaTeX won't accept certain symbols. For example, % symbol. IATeX comment lines starts with percentage (%) symbol. Thus, everything on the line after % is treated as a comment. If you want to print '15% discount', then you will have to write '15\% discount'. A few more symbols follows the same logic – \$, &, }, $\{$, –

5 Important Websites

1. Visit LATEX Official Website

2. Visit Wikipedia: IATEX