Introduction to Linux

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SECTION–II Introduction to LaTeX

What is LaTeX?

- Document preparation system
- LaTeX was written by **Leslie Lamport**
- Free software
- License: LaTeX Project Public License
- Website: https://www.latex-project.org

What's Different?

- It is not WYSIWYG
- Concentrate on content writing not formatting
- Write simple commands for formatting.
- Write content and complex mathematical formula with ease.
- It is a **Markup Language**

What can be done?

- Write articles, books, scientific journals and papers
- Design posters, banners, presentation, resume etc
- Mostly used by writers and engineers

Why LaTeX?

- Quality and Aesthetics
- Price
- Editing, Versioning
- Focus On Content
- Time Investment
- Longevity

Process of Writing

- Writing content using any text editor.
    - notepad
    - gedit
    - LaTeXIDEs(TexStudio, Texmaker)
- Save it as .tex file
- Output: .tex File(Input) $\rightarrow$ pdflatex.tex(build) $\rightarrow$ .pdf File(Output)

LaTeX Offline IDEs/Editors

- TexStudio
  `https://www.texstudio.org`
- Texmaker
  https://www.xm1math.net/texmaker

LaTeX Online IDEs/Editors

- Overleaf
  https://www.overleaf.com
- LaTeXBase
  https://latexbase.com/d/9c45355f-16c1-485a-aee2-7e90921c40e1

Resourses

- https://www.latex-project.org/help/documentation/
- https://www.overleaf.com/learn
- https://www.latex-tutorial.com
- https://www.latextemplates.com/

Thank You

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