University of Nottingham
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Session 6 Recap

CELEN087

Learning outcomes:

- Know how to create a simple document with the following summarized contents.
- Typeset math related contents properly by using inline or display math modes.
- Familiarize yourself with different commands for typesetting math expressions.

Content Summary

1. **Basic structure for creating an article type document**

```
\documentclass{article}
% preamble for general document settings

\begin{document}

% document content goes here...

\end{document}
```

2. **List environment**

```
\begin{itemize} % unordered list
\item ...
\item ...
\end{itemize}

\begin{enumerate} % ordered list
\item ...
\item ...
\end{enumerate}
```

3. **Basic fonts style**

```
\textbf{ text... } % boldface text
\textit{ text... } % italics text
\underline{ text...  } % underlined text
```

4. **Inline math mode**

```
$  Math Expressions  $

% Syntax for different commands can be found in the LaTeX command sheet on Moodle

\(  Math Expressions  \) % an equivalent way
```

5. **Display math mode**

```
$$  Math Expressions  $$


\[  Math Expressions  \] % an equivalent way
```

6. **Section and subsection**

```
\section{  name...  }
\subsection{  name...  }
```

7. **Document setting**

```
\documentclass{article}
% this is the preamble of the document.

\title{...}
\author{...}
\date{...} % use command \today for displaying today's date

\begin{document}
% this is the content of the document.

\maketitle
% display the information defined in the preamble

\tableofcontents
% display a table of contents with names of sections and subsections

% actual content goes here...
\end{document}
```

Open questions (AI tools are allowed/recommended in your learning process):

1. What are the advantages of using LaTeX over other typesetting software (e.g. Microsoft Word) for Science and Engineering students?
2. What is a good way of studying LaTeX as a beginner?