Session 7 Recap CELEN087

Learning outcomes:

- Create tables with math elements

- Include image and adjust its size for appropriate display

- Include programming codes

- Adjust font style and font size

Content Summary

1. **Table**

```
\begin{table}[!h]
\centering
\begin{tabular}{|cccc|} % a table example with 2 rows and 4 columns
\hline
... & ... & ... & ...\\
\hline
... & ... & ... & ...
\hline
\end{tabular}
\caption{...}
\end{table}
```

Important note:

(a) Alignment of each column is specified by l, c or r. For example:

```
\begin{tabular}{ccrl}
```

(b) Vertical line is added by |. For example:

```
\begin{tabular}{|c|cc|c|}
```

(c) Horizontal line is added by \hline.

(d) Inline math mode $...$ should be used, if the cell element is something in math.

2. **Figure**

```
\begin{figure}[!h]
\centering
\includegraphics[optinal setting]{image file name}
\caption{...}
\end{figure}
```

Important note:

(a) \usepackage{graphicx} should be added to the preamble of your .tex source code.

(b) The **.png** image file should be put into the same folder with your **.tex** source code.

(c) Commonly used optional settings for adjusting the image size:

```
\includegraphics[scale=0.7]{image file name}
\includegraphics[width=0.8\textwidth]{image file name}
```

3. **Code**

```
\verb| single-line program code or command |
```

```
\begin{verbatim}
 multiple-line program codes
\end{verbatim}
```

4. **Font style and font size**

Refer to lab notes.

5. **General page setting**

Refer to self-study links.

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

1. Many of your learning materials on this module are created in LaTeX. For example, your worksheets, homework sheets, recap sheets and exam papers. Go over them and check if you are able to recognize the related LaTeX envrionments used there.

2. Many of you had the experience of writing a scientific report in Semester-1. Are you able to reproduce it in LaTeX?