TPT1201
Research Methodology

Lab 4

By completing the tutorial, you should be able to:

- create tables
- insert images

Exercise 1

Type the following code:

```
\begin{tabular}{|c|}
\hline
row 1 \\
\hline
This is row 2 \\
\hline
Hi, this is another row, row 3 \\
\hline
\end{tabular}
```

[note: `|c|` means there is one column, center aligned, with vertical lines on both sides of the column. You may try removing the vertical lines for the column. The command `\hline` denotes horizontal line.]

Exercise 2

Type the following code:

```
\begin{tabular}{|l|l|}
\hline
```

```
left item & right side of row 1, name it item 2\\
\hline
row 2 and this is for item 1 & row 2.item2\\
\hline
row 3.item1 & row 3.item2\\
\hline
\end{tabular}
```

[note: |l|l| means there are two columns, left aligned, with vertical lines on both sides of the columns.]

Exercise 3

Type the following code:

```
\begin{tabular}{l c r}
\hline
left aligned & align text in center &
make it on right side\\
\hline
row 2 and left for item 1 & center & something\\ \hline
row 3.item1 & center & yet another-right\\ \hline
\end{tabular}
```

[note: {l c r} means there are three columns, with first column left-aligned, the second column at the center, and the third column aligned right. Note that the vertical lines have been removed.]

Exercise 4

Type the following code:

```
\begin{tabular}{|l|c|r|}
\hline
left aligned & align text in center &
make it on right side\\
\cline{1-1}
row 2 and left for item 1 & center & something\\ \cline{2-3}
```

```
 row 3.item1 & center & yet another-right\\ \hline
\end{tabular}
```

Exercise 5

Type the following code:

```
\begin{tabular}{|l|c|r|}
\hline
left aligned & align text in center &
make it on right side\\
\cline{1-1}
row 2 and left for item 1 & center & something\\ \cline{2-3}
row 3.item1 & center & yet another-right\\ \hline
\end{tabular}
```

[note: the command \cline{i-j} adds partial lines from column i to column j.]

Exercise 6

Create the following table.

10	ten
20	tan & goh
30	thirty
40	my age

Exercise 7

Type the following code:

```
\begin{tabular}{|c|c|}
\hline
\multicolumn{2}{|c|}{Testing}\\
\hline
data 1(left column) & data 2 on the second column\\
\hline
\end{tabular}
```

[note: The command \multicolumn{}{}{} span across the columns]

Exercise 8
Create the following table.

	Accuracy(%)	
	Model 1	Model 2
Dataset 1	80	90
Dataset 2	90	70
Average	?	?

Exercise 9
Before you can create multirow tables, you must include \usepackage{multirow} in the preamble section.

```
\begin{tabular}{|l|c|c|}
\hline
\multirow{2}{*}{Already Merged} &
\multicolumn{2}{|l|}{Two columns} \\
\cline{2-3}
   & 2 & 3 \\
\hline
\end{tabular}
```

Exercise 10
Type the following code to insert mmu logo. You can download mmu logo from internet. Assume the file is mmulogo.png

```
\begin{center}
\includegraphics[scale=2.0]{mmulogo.png}\\
\end{center}
```

Exercise 11

Assuming that you store your images in a folder named `Images`, then you need to include the code `\graphicspath{{Images/}}` at the preamble section. See example complete code below:

```
\documentclass{article}
\usepackage{graphicx}
\graphicspath{{Images/}}
\begin{document}
\begin{center}
\includegraphics[scale=2.0]{mmulogo.png}\\
\end{center}
\end{document}
```