

Lab 6

Research Methodology in Computer Science

By completing the exercises, you should be able to:

- create a simple presentation slides using LATEX
- apply a template to beamer

we're going to create a simple presentation using the beamer package.
Try the following code. Take note that the output is a PDF.

```
\documentclass{beamer}
%Information to be included in the title page:
\title{How to score A+ in Research Methodology in Computer
Science}\author{Dr Hui-Ngo Goh}\institute{Multimedia University}
\date{2025}
\begin{document}
\frame{\titlepage}
\begin{frame}
\frametitle{Introduction}
Are you ready? deng deng deng\end{frame}
\end{document}
```

How to score A+ in Research Methodology in
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Dr Hui-Ngo Goh

Multimedia University

2025

Introduction

Are you ready? deng deng deng

Try to add MMU logo **after** `\begin{document}` and apply it to all slides using `\logo{...}` *inside the document body.*

```
\logo{\includegraphics[height=1cm]{mmu_logo.png}}
```

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Introduction

Are you ready? deng deng deng

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Add a new package named `mdframed` so that a box can be created to surround the text. Add also a package named `xcolor` for colour purpose.

Try another package named `verbatim`

```
\begin{frame}[fragile]
\frametitle{Introduction}
Are you ready? deng dengdeng

\begin{mdframed}[backgroundcolor=blue!20]
\begin{verbatim}
Welcome onboard!!!
\end{verbatim}
\end{mdframed}

\end{frame}
```

The image shows a Beamer presentation slide. At the top, there is a blue header bar with the word "INTRODUCTION" in white. Below the header, the slide has a yellow background. The text "Introduction" is displayed in blue. In the center of the slide, the text "Are you ready? deng deng deng" is shown in black. Below this, there is a purple rectangular box containing the text "Welcome onboard!!!". At the bottom of the slide, there is a yellow footer bar with various Beamer navigation icons. The overall layout is clean and professional, typical of academic presentations.

Add the following line of code just after `\documentclass{beamer}`

`\usetheme{Madrid}`

Try other theme:

- Ann Arbor
- Berkeley
- Marburg
- Antibes
- Goettingen
- Pittsburgh
- Bergen
- Hannover
- Szeged



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Introduction

Are you ready? deng deng deng

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It's also possible to put the table of contents at the beginning of each section and highlight the title of the current section. Just add the code below to the ***preamble*** of your LATEX document:

```
\AtBeginSection[]  
{  
  \begin{frame}  
    \frametitle{Table of Contents}  
    \tableofcontents[currentsection]  
  \end{frame}  
}
```

\AtBeginSection[]

should be placed **after \begin{document}** but **before your first \frame{...}**. This ensures that Beamer knows what to do each time a new section begins.

You only need to define \AtBeginSection **once** — no need to repeat it.

```
\begin{document}  
\AtBeginSection[]
```



\AtBeginSection automatically triggers whenever you use
\section{Section Title}

```
\section{INTRODUCTION}  
\begin{frame} ... \end{frame}  
  
\section{THINGS TO DO}
```



A screenshot of a Beamer presentation slide. The top navigation bar is blue, and the main content area has a yellow header bar containing the text "Table of Contents". Below this, there are two numbered sections: "1 INTRODUCTION" and "2 THINGS TO DO". The slide footer includes the MMU logo and standard Beamer navigation icons.

- Read more and have curiosity
 - Critical thinking



Insert a new slide with the required content

