LaTex Lab 2: Report

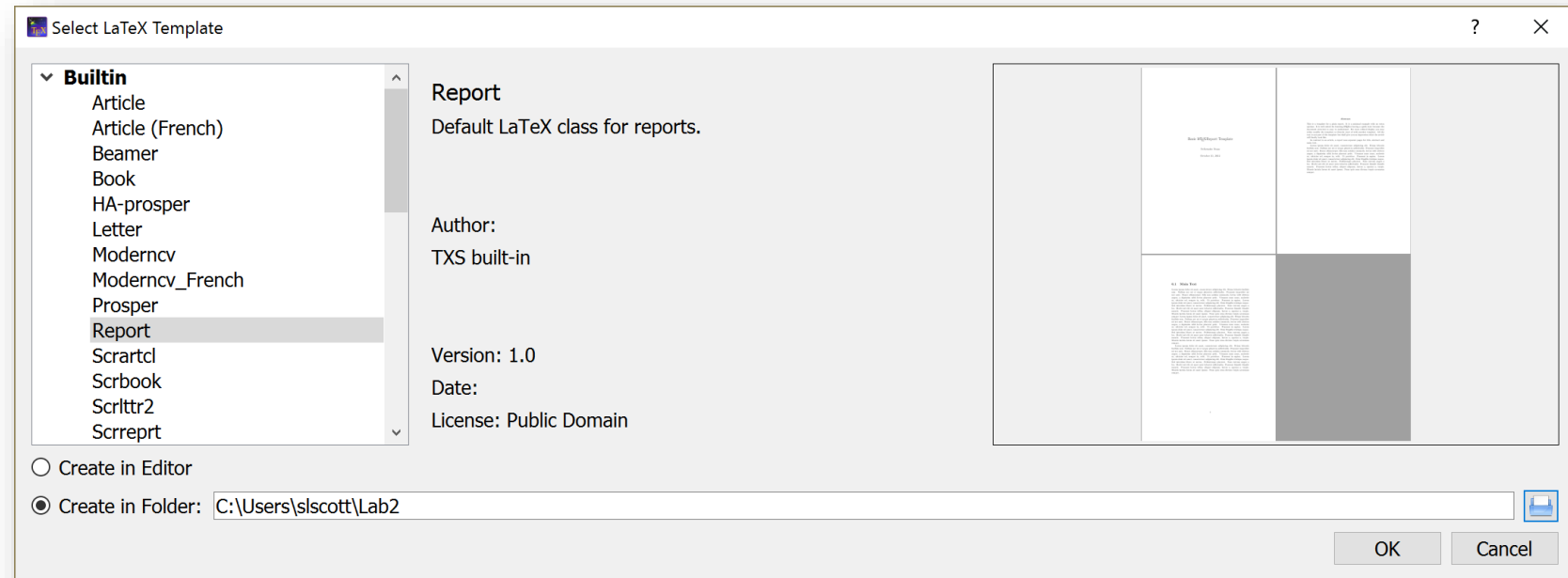## CSI 500

Course material derived from:

Lamport, L. (1994). *LATEX: a document preparation system: user's guide and reference manual*. Addison-Wesley.

Report

- Let's make another LaTex document

- Make a new folder called "Lab2"

- In TexStudio, File, New From Template

- Select "Report"

- Select "Create in Folder", and navigate to your "Lab2" folder.

- Press OK

2

Report LaTex code

- Type in the following in the editor window.
  - Your additions are shown in RED font color
  - the "%" indicates comments
- Save the document
- Press the green arrowhead titled "Build and View" on the menu bar - it looks like this

  ▶▶

- At the dialog box, press F5 and OK

```
% Report.tex
% example of TexStudio built=in Report
\documentclass[11pt]{report}
% Title Page
\title{Example Report}
\author{Your Name\\Your University\\Your Location}

\begin{document}
\maketitle

\begin{abstract}
This example uses the default "report" template
supplied with the TexStudio IDE.
\end{abstract}

\section{Background}
\paragraph{}

\section{Technical Approach}
\paragraph{}

\section{Findings}
\paragraph{}

\section{Future Research}
\paragraph{}

\end{document}
```
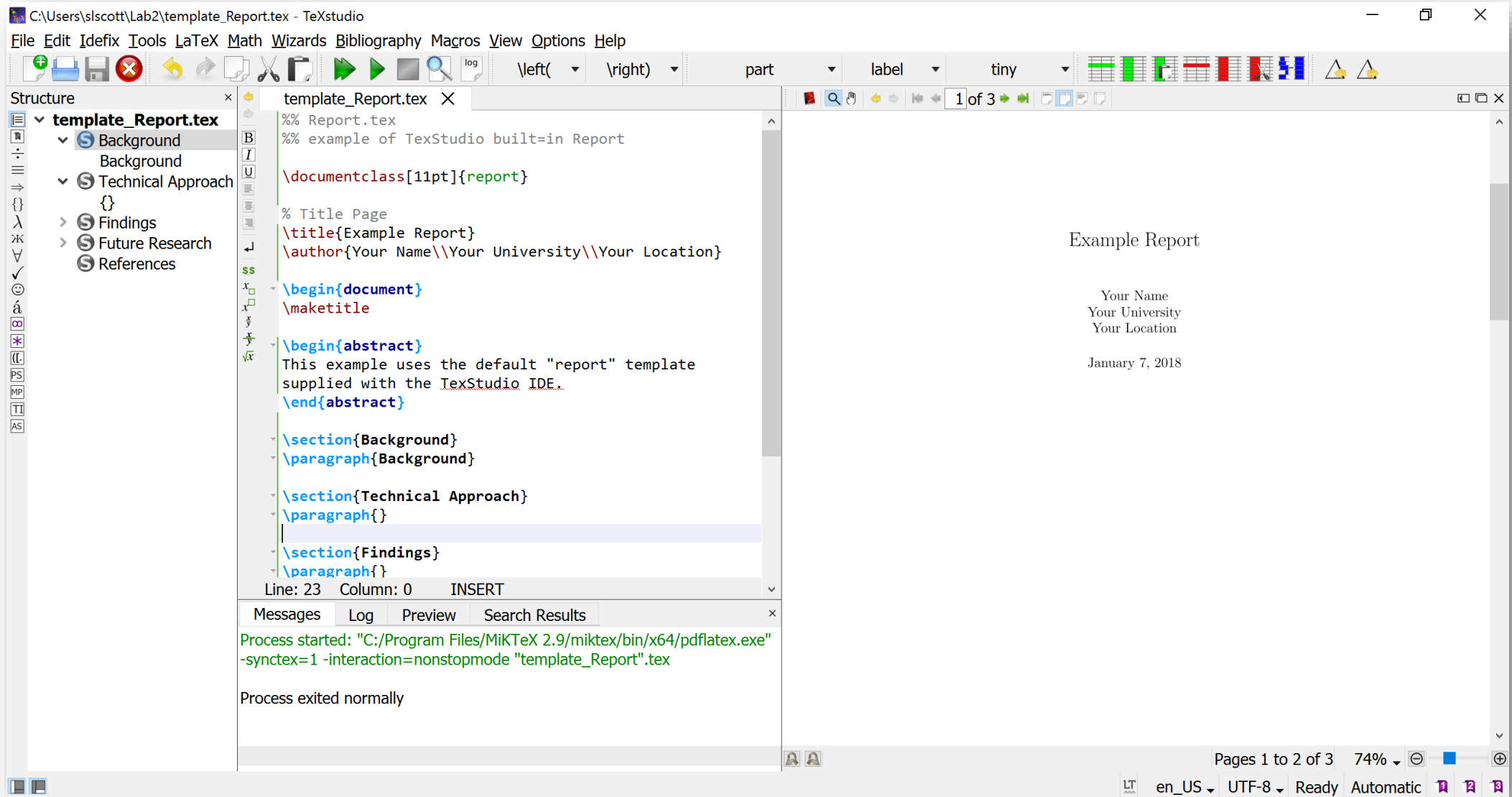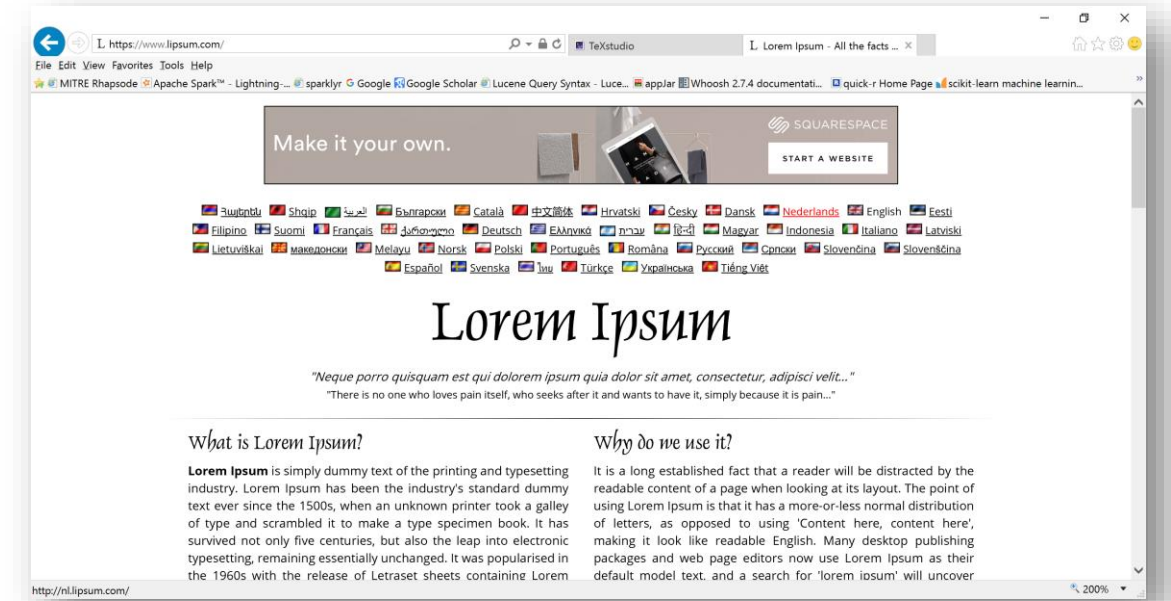
3

What it should look like (cover sheet pg 1)

Generate Lorum Ipsum content

- Typesetters often use dummy content to visualize the page layouts
- The "Lorum Ipsum" text is an example
  - https://www.lipsum.com/
- Visit this web site, and generate 5 paragraphs of text, and copy the text into your clipboard
- In your TexStudio, open a new blank file in your Lab2 folder, call it "Lorum_Ipsum.tex", and paste the copied text into it. We'll use this file as content for this lab.

Add dummy content

- Below each of the \paragraph{} commands, enter in a paragraph of Lorum Ipsum text.
- Cut and paste from your content document that you just created (Lorum_Ipsum.tex)

% example of what your \section
% and \paragraph should look like

\section{Background}
\paragraph{}
Lorem ipsum dolor sit amet, consectetur adipiscing elit. Mauris convallis a ante a gravida. Integer quis neque id elit ullamcorper finibus. Mauris convallis et libero et aliquet. Aliquam erat volutpat. Praesent fringilla consequat nibh eu semper. Mauris sodales odio in quam molestie, vitae condimentum ante mattis. Cras purus nulla, hendrerit quis mauris non, auctor venenatis nulla. Sed maximus dictum dignissim. Fusce bibendum tristique neque quis tristique.

Build and view results

Typeset text

Dummy text

Let's fix the section numbering

- For "report" class documents, the sections are managed as components of higher-level "chapter" or "part".

- Let's just add in a chapter command to get the sections numbered nicely.

- In your code, after the \abstract but before the first \section, enter the \chapter command code as shown to the left in RED font

```
\begin{document}
\maketitle

\begin{abstract}
This example uses the default "report" template
supplied with the TexStudio IDE.
\end{abstract}

\chapter{Basic Research}

\section{Background}
\paragraph{}
Lorem ipsum dolor sit amet, consectetur
adipiscing elit. Mauris convallis a ante a gravida.
Integer quis neque id elit ullamcorper finibus.
Mauris convallis et libero et aliquet. Aliquam erat
volutpat. Praesent fringilla consequat nibh eu
semper. Mauris sodales
```

Build and view

results

new
\chapter
command

Fun extension: two column format

- Some journals use single column, and others use two or more columns.

- LaTex supports this feature.

- At the very first line of your document, add in the use of the "twocolumn" document class.

```
% Report.tex
% example of TexStudio built=in Report

\documentclass[11pt, twocolumn]{report}


% Title Page
\title{Example Report}
\author{Your Name\\Your University\\Your Location}
```

Build and view

results

new "twocolumn" document class