

Due: 1st August

1. Create the following L^AT_EX source file including your name as author:

```
\documentclass[11pt,a4paper]{article}

\title{AMTH250 \ Assignment 1}
\author{} % put your name in the braces

\begin{document}

\maketitle

This is my first \LaTeX{} assignment.

\end{document}
```

2. Run the file through L^AT_EX and produce a pdf file.
3. Go to the assignment submission page
<http://turing.une.edu.au/secure/assmit.cgi?unit=amth250>
and submit the .tex file and the .pdf file.

Doing Assignment 1

It is assumed that you have already installed L^AT_EX.

Completing the assignment involves a number of operations:

1. Creating the L^AT_EX source file.
2. Running the file through L^AT_EX to produce a pdf file.
3. Submitting your assignment.

Step-by-Step Instructions

The following instructions, while specific to Windows, should be easily adapted by Mac and Linux using Texworks. For Linux users who are comfortable using the command line and a text editor there are separate instructions below.

1. It is a good idea to create a new folder, called say `amth250` in, for example, the **My Documents** folder, and keep all your work for this unit there.
2. Start Texworks and select **New** under the **File** button. Type in the L^AT_EX source file from the assignment. Note that a new line is started with the **Enter** key, pressing **Enter** twice will give you a blank line¹.
3. Select **Save As** under the **File** button and save the file as, say `assign1`, in the `amth250` folder. Texworks should recognize it as a L^AT_EX source file and supply the `.tex` extension. Once this file is saved the pdf file created from it will be placed in the same folder.
4. Make sure the **Green** button is pointing to **pdfLaTeX**. Then clicking on the button will process the L^AT_EX source file and, if successful, produce the pdf file.
 - (a) If there are no errors then the pdf file will display in a new window. Note that the mouse is like a magnifier in the new window. Pressing the left mouse key will magnify the text under the cursor.
 - (b) If there is an error in your L^AT_EX source file two panels will appear at the bottom of the editing window. See **Handling Errors** below.

¹L^AT_EX source files are *plain text* files so when working with L^AT_EX you should forget whatever you might know about Microsoft Word.

5. Once the `pdf` file has been successfully produced go the assignment submission page

`http://turing.une.edu.au/secure/assmit.cgi?unit=amth250`

and submit the files `assign1.tex` and `assign1.pdf`. These files should be in the *amth250* folder; if not you will have to go back to step 3 above and try to track down what has gone wrong.

Linux Command Line

This section is intended for internal students and Linux users familiar with working from the command line.

1. It is a good idea to create a separate directory, say `amth250` for your work in this unit.
2. Using your favourite text editor, e.g. `emacs`, `vim` or `gedit`, create the \LaTeX source file for the assignment, named say `assign1.tex`.
3. Once the file `assign1.tex` has been created and saved the command:
`pdflatex assign1.tex`
will process the file and, if successful, create the file `assign1.pdf`. \LaTeX will print some information to the screen and possibly create some other files you don't have to worry about. If the processing fails due to errors in \LaTeX source, type `x` to exit `pdflatex` and go back and correct your `.tex` file.
4. You can now view the `pdf` file. The `evince` viewer is recommended – if left open it will update automatically when the `pdf` file is updated.
5. Once the `pdf` has been produced go the assignment submission page
`http://turing.une.edu.au/secure/assmit.cgi?unit=amth250`
and submit the files `assign1.tex` and `assign1.pdf`.

Handling \LaTeX Errors

If your \LaTeX source file has errors, for example you may have typed `\LateX` instead of `\LaTeX`, then processing the source file will fail and no `pdf` file will be produced.

In this case, in TeXworks, two panels will appear at the bottom of the editing window. The **Console Output** panel displays the error message from `pdflatex`. If you typed `\LateX` instead of `\LaTeX` then following message² will appear:

²The same message will appear will appear to Linux users working from the command line. The line number at which the error occurred is often helpful in finding the error.

```
! Undefined control sequence.  
1.10 This is my first \LaTeX  
                                {} assignment.  
?
```

Clicking on **LaTeX errors** will open a new panel which lists all the errors. Clicking on the filename will then highlight the line on which the error appears. Typing **x** (and Enter key) in the bottom Console bar will return TexWorks to its normal state and you can correct the error and process the corrected source file.