



UPPSALA UNIVERSITET

Report for 1DT086 and 1DT032

Lab X: Topic

Group NN

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1 My Section Title

To use L^AT_EX, the following software is recommended, depending on your operating system.

- On *Linux* use **TeX Live** (install via your package manager)
- On *Mac OS*, use **MacTeX** (see <http://www.tug.org/mactex/>)
- On *Windows*, use **MiKTeX** (see <https://miktex.org/>)
- Alternatively, a web based solution that also supports collaborative editing is **Overleaf** (see <https://www.overleaf.com/>)

There are many, many L^AT_EX tutorials online. For example this one from the Overleaf team.

1.1 My subsection title

To compile this `.tex` file on a Linux machine with Tex Live installed, just run `pdflatex` from a terminal, like so.

```
pdflatex report-template.tex
```

This will produce the output file `report-template.pdf`.

1.1.1 My subsubsection title

Answer to Question 1.1. Answering a short question can be convenient in a paragraph like this. For long answers you may want more structure, though. By the way, here is an inline formula claiming (quite truthfully) that $\sin(\pi) = 0$. For more complicated formulae, like this one about the alternating harmonic series, it is better to display them as follows.

$$\sum_{n=1}^{\infty} \frac{(-1)^{n-1}}{n} = \ln(2)$$

One of the best aspects of T_EX and L^AT_EX is how well mathematics is typeset. Of course, you will not really need that for your current report.

2 Another Section Title

To include a source code listing, just use an `lstlisting` environment. The default code listing style for the reports was already set in the preamble of this

template. You will note that it includes syntax highlighting for C code. Here is an example:

```
1 #include <stdio.h>
2
3 int main() {
4     printf("Good bye, world!\n");
5     return 0;
6 }
```

If you wish, you can add a caption to the listing. You can also let L^AT_EX automatically handle references to listings, figures etc. by putting a *label* on it and then refer to it, just like we did with Listing 1. You'll notice, though, that this requires you to run `pdflatex` twice.

Listing 1: I'm very proud of this program

```
1 #include <stdio.h>
2
3 int main() {
4     if (1 + 1 > 3) {
5         printf("The world is crazy!\n");
6     }
7     return 0;
8 }
```

Of course, you can include figures like in Figure 1 where we just reused the image file with the university seal again.



Figure 1: The university seal, from around the year 1600.