# ELC 2137 Lab: Lab 1 Git and LaTeX Intro

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## Summary

The purpose of this lab was to become familiar with GitHub and LaTeX, as they will be used frequently throughout the ELC 2137 course. Following a report format and an example code, students accomplished specific tasks with the help of LaTeX.

## Q&A

1. What is your GitHub username?

   MakennaMeyers1

2. What LaTeX environment produces a bulleted (non-numbered) list?

   itemize

3. Write the equation $y(t) = (1/2)e^t$ using LaTeX equation formatting.

   $y(t) = \frac{1}{2}e^t$

4. What is the shortcut key for compiling your LaTeX document?

   F5

## Results

| Binary | Hex | Decimal |
|--------|-----|---------|
| 0000 | 0 | 0 |
| 0010 | 2 | 2 |
| 0100 | 4 | 4 |
| 0110 | 6 | 6 |
| 1000 | 8 | 8 |
| 1010 | A | 10 |



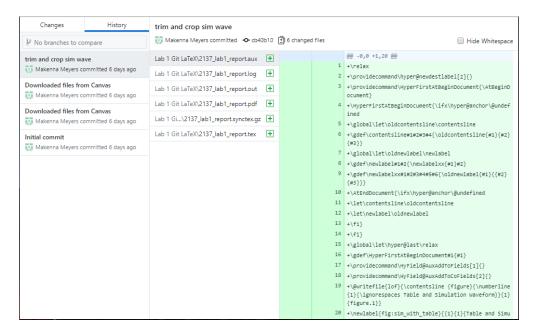Figure 1: ERT and Simulation Waveform



Figure 2: GitHub History

# Code

Listing 1: Lab 1 Code

```verilog
module example
   #(parameter BITS=4)
   (
   input [BITS-1:0] in0, in1,
   input sel,
   output [BITS-1:0] out
   );

   // Choose in1 or in0
   out = sel ? in1: in0;
endmodule
```