What should be in the report

The report will contain (at least):

- Front page (title, names, student numbers).
- Summary of the report itself.
- Table of contents.
- Introduction.
    - What is the context of the assignment? DSPs, digital filters, give a short introduction in your own words.
    - Describe your assignments.
- Design and realization of your FIR filter.
    - What where the requirements for this filter?
    - How are the coefficients determined? Describe the settings you used in MATLAB's FDAtool and explain the choices you made.
    - Show charts and tables of your filter design generated by MATLAB.
    - The (unoptimized) software codes.
        - How did you implement the filter and why did you do it that way?
        - Explain your use of of fixed point numbers.
        - Clearly explain your code.
    - The results.
        - How and with what method did you test your filters in the lab.
        - What did you measure? Input/Output graphs and tables (dB).
        - Compare your bode plot to MATLAB's version.
- Design and realization of your IIR filter.
    - What where the requirements for this filter?
    - How are the coefficients determined? Describe the settings you used in MATLAB's FDAtool and explain the choices you made.

    - Show charts and tables of your filter design generated by MATLAB.
    - The (unoptimized) software codes.
        - How did you implement the filter and why did you do it that way?
        - Explain your use of of fixed point numbers.
        - Clearly explain your code.
    - The results.
        - How and with what method did you test your filters in the lab.
        - What did you measure? Input/Output graphs and tables (dB).
        - Compare your bode plot to MATLAB's version.
- Optimization.
    - Which filter did you choose to optimize?
    - How did you profile your code?
    - Which techniques did you use to optimize your code?
    - Which specific DSP features did you utilize to optimize your code?
    - Clearly explain your optimized codes.
    - How fast was your implementation before and after optimization?
- Conclusion and recommendations.
    - Don't introduce new facts in your conclusion.
    - Do your filters fulfill all their requirements?
    - How well could you optimize your code?
    - What could be done to further improve on your filters?

What should not be in the report

The report will not contain:

- Material that's not your own.
    - Someone else's text without quotes and without a proper reference.

        - Proper citations are only allowed for shorts texts with a definite added value.
        - The same goes for paraphrasing.
    - Someone else's code.
        - Also if you changed the names of the variables and functions.
        - Use of code snippets from the lab work handbook or TI documentation is allowed but don't forget to use a proper reference.

Upon finding one or more of the mentioned points in your report, you will not be graded and your plagiarism will be reported to the exam committee.