



PROJECT REPORT
Greatest Common Divisor &
Least Common Multiple Calculator
With Simple Learning Machine

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APPROVAL AND RATIFICATION PAGE

PROJECT REPORT

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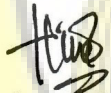
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11.02.0027 – Tjong William Agitama

This project report has been approved and ratified by the Dean of Faculty of
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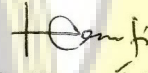
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Supervisor,



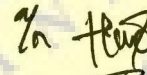
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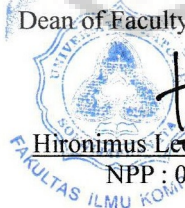
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STATEMENT OF ORIGINALITY

I, the undersigned:

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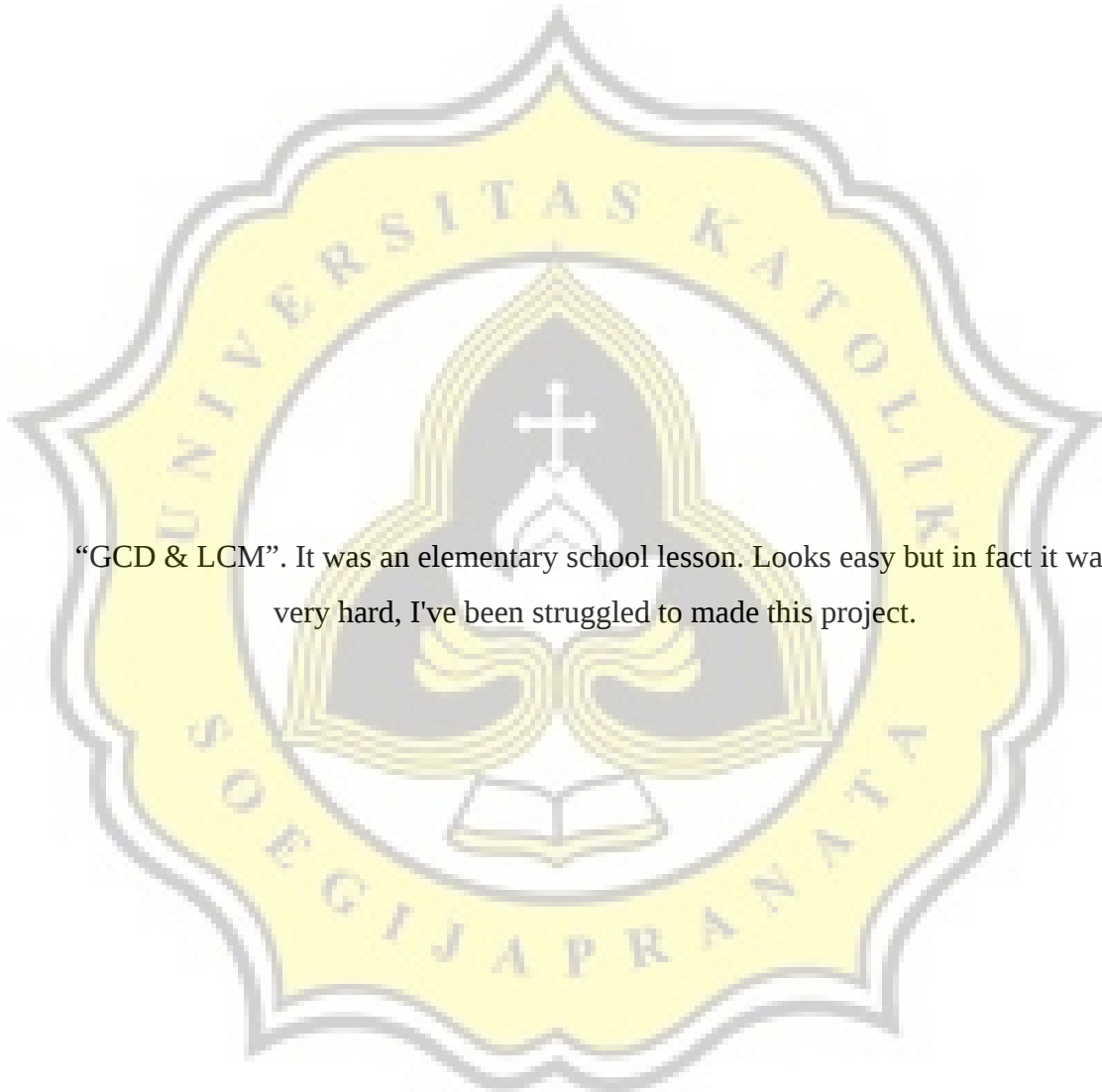


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11.02.0027



FOREWORD



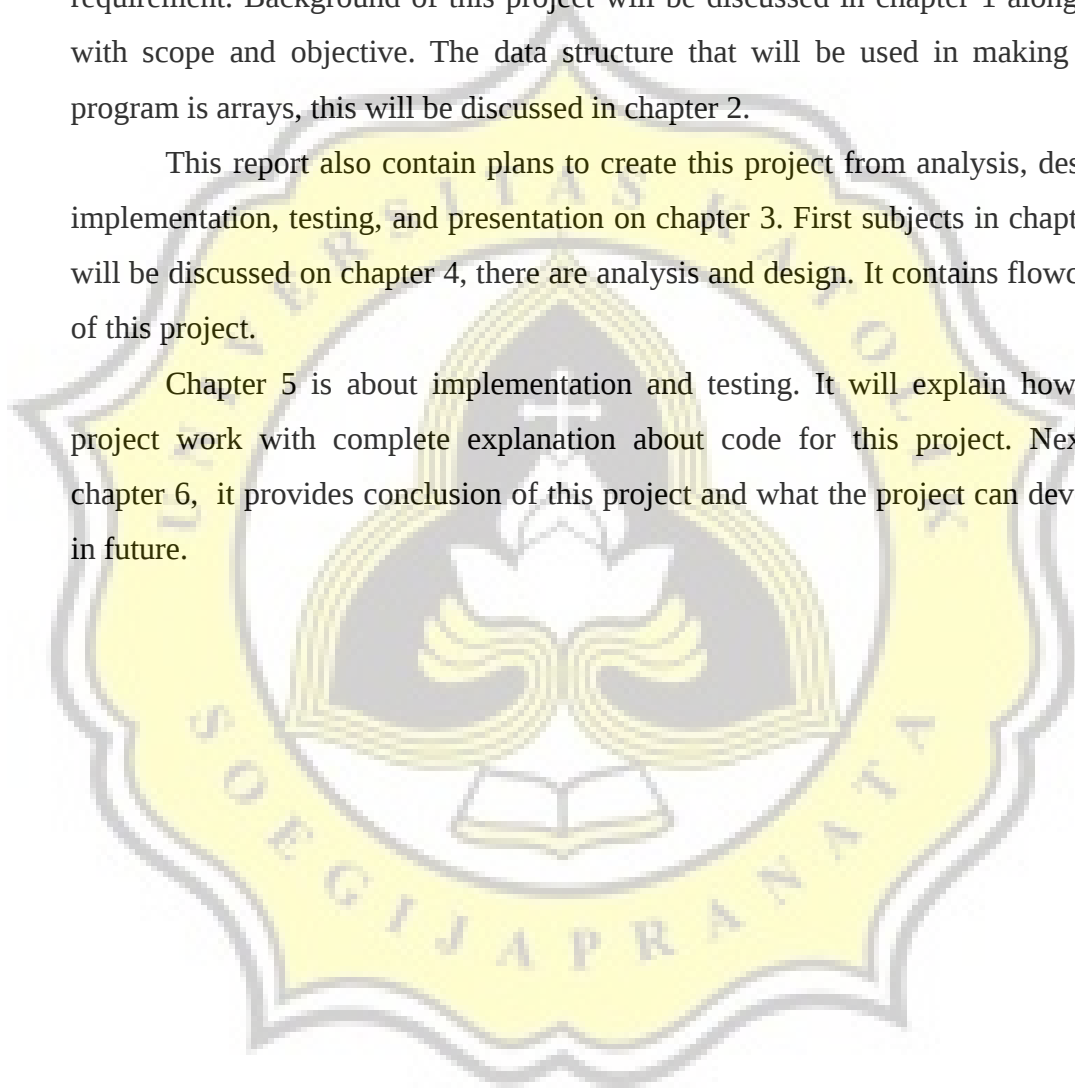
“GCD & LCM”. It was an elementary school lesson. Looks easy but in fact it was very hard, I've been struggled to made this project.

PREFACE

This project entitle “Greatest Common Divisor & Least Common Multiple Calculator With Simple Learning Machine” was made as a graduation requirement. Background of this project will be discussed in chapter 1 alongside with scope and objective. The data structure that will be used in making this program is arrays, this will be discussed in chapter 2.

This report also contain plans to create this project from analysis, design, implementation, testing, and presentation on chapter 3. First subjects in chapter 3 will be discussed on chapter 4, there are analysis and design. It contains flowchart of this project.

Chapter 5 is about implementation and testing. It will explain how the project work with complete explanation about code for this project. Next is chapter 6, it provides conclusion of this project and what the project can develop in future.



ABSTRACT

GCD (Greatest Common Divisor) & LCM (Least Common Multiple) is an elementary school lesson. Its about to search prime number from the compared numbers then the prime number is used to search GCD & LCM. The number which have been search before will be saved into txt file. It's used as a simple learning machine. Every time user input numbers that already saved in txt file, the program will automatically take the number and the prime number and then display it to user.

This program use array to store the data that required to count GCD & LCM. Because array is special, it can store many data without limit and this program needs many data. This program has several function to solve the GCD & LCM. It use PHP and HTML to count the result and to create the web design. There are 4 steps in this program. First is search the prime factor, then sort it from smallest into biggest value to make user read the prime factor easier. If it already sorted then the program will count for GCD & LCM. Result of GCD & LCM will be informed as detailed as possible include the multiple process until it found the result.

Keywords : GCD, LCM, Simple Learning Machine

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