# DSA Assignment4 Report

# -Open Source Practice

電機4B 108501025 沈冠璋

1. Build Guide

You can execute them by following instruction:

* g++ main.cpp -o aa (aa is the execute filename, you can set whatever you like)

1. Execute Guide

You can execute them by following instruction:

* ./aa (aa is the execute filename)

Then, system will let you enter 5 length alphabets. After typing, you can see the encode/decode process of Algorithm.

In the end, you can see the time of two different coding ways.

1. Flowchart
2. System Architecture

* I choose the code of Huffman coding and Arithmetic coding on Github
* “Huffman.h” is the code of implementing Huffman coding
* “arc.h” is the code of implementing Arithmetic coding
* I calculate the time of system using respectively first, and compare them in the end