# 2810, Software Technologies Assignment 1

Zaymon Foulds-Cook, s5017391

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## 1 Software Technologies Assignment 1

### 1.1 Problem Statement

### 1.2 User Requirements

The following list itemizes the user requirements for the implementation of the Ladder-gram program

• The user should be able to interact with the program by specifying the start and goal word

### 1.3 Software Requirements

The following list itemizes the software requirements for the implementation of the Ladder-gram program

- The program will notify the user if the inputs are invalid
- The program will notify the user if a solution was found
- If a valid solution is found the program will print it to the console

## 1.4 Software Design

High Level Design - Logical Block Diagram | Ladder-gram

### Structure Chart - UML | Ladder-gram

#### List all functions in the software

#### Functions in the Ladder-gram Program

1. **Function name** | description

Input Parameters: None

Side Effects:

• side effect 1

Returns: void

### List all of the data structures in the Ladder-gram program

1. **Type** | Purpose

Used in the following functions:

• item 1

### Detailed Design

Generate Solutions Pseudo-code

- 1.5 Requirement Acceptance Tests
- 1.6 Detailed Software Testing
- 1.7 User Instructions