This section should contain the course number, lab number and version, and student name.

Comp 120

Lab report template

Daniel Kender

**Functional Specifications**

This section should explain what the program does

This program determines the amount of weight added to an Amish wagon based on the weight of each bale of hay added. The program will prompt the user to enter the weight of each hay bale that was added, repeating until a -1 is entered. It will sum the values and determine if the weight that is added is greater than 4000 pounds. If so, it will display a message to the user that the wagon is over its weight limit.

**Technical Specifications**

This section should explain how the program accomplishes its tasks.

This program will use a priming read to obtain the weight of the first hay bale. It will enter the while loop that will continue until the -1 sentinel value is entered. It will use an accumulator in the loop to keep a running total of the weight that has been added. Once it exits the loop, it will use an if statement to determine if the weight exceeds the maximum of 4000 pounds. If so, it will display the following message, “Wagon is over the maximum weight of 4000 pounds”.

**Flow Chart**

**Diagram

Description automatically generated**

**Source Code**

Text

Description automatically generated

**Program Execution**

Program execution should use enough test data to follow every possible path through the program

**Execution with less than 4000 test data**

Graphical user interface, text, application

Description automatically generated

**Execution with greater than 4000 test data**

Graphical user interface, text, application

Description automatically generated

**Comments**

The comments section should describe any errors that were encountered during the program development and give an approximate time that it took to complete the project.

I encountered one error while completing this assignment. I forgot to type cast the weight to an integer before testing it against a -1 and adding it to the total weight. This produced a runtime logic error.

The estimated time for me to complete this project was approximately 30 minutes.