**CSC 160 Design Document**

Student Name: James Wolf

Project Name: Chapter 7 Arrays

Use this form as an outline to design and document your assignment. This document may take many pages for more complex programs.

User Story (1 or more):

Form: As a meteorologist I would like a program where I can enter the temperatures for the week and have the program tell me the Highest, Lowest, average and then average excluding the lowest temp. Also have the program tell me the number of days were bellow a temperature that I enter.

Algorithms (calculations in your programs): Calculate Average: add up the weeks temps / 7

Calculate Average excluding Lowest Temp: Determine lowest temp entered the minus that from the sum of temps / 7 days

Program data needs (what data will you have to store and the type): Sunday-SaturadyTemp’s (assign a temp int to each day of the week) as weeksTemps as an array

GetHighestTemp

GetLowestTemp

GetDaysUnderTemp: (Return the number of days that were under what the meteorologist entered)

CalculateAverage

CalcAveExcludingLowestTemp

Pseudo Code (your steps to get to the program outcome in English):

Have 7 textboxes for the meteorologist to enter a temp for each day of the week.

Have a calculate button, a Display Highest Temp, Lowest Temp, Average Temp and Average excluding Lowest Temp Buttons.

And have a spot to display the information to the meteorologist.

Class Diagrams (if designing after chapter 4): Calculate Temp Business class: To do the calculations to find temps.

Calculate Average: add up the weeks temps / 7

Calculate Average excluding Lowest Temp: Determine lowest temp entered the minus that from the sum of temps / 7 days