ICS 4U - Final Project
Applying Project Management and Software Development Skills

For your final project, you will be developing a software application that performs a specific task. The software application must include a number of concepts that were covered during the course, must be extremely user friendly, and must be completely bug and error free. You have your own choice of a computer programming environment.

The concepts that must be implemented in your project, in order to obtain maximum marks, are:

Looping   *Decision Making*   *User-Defined Functions*   *Strings*
Lists (1-D and 2-D)   *Text Files*   *Graphics*

Defining the Problem - Due: Monday, June 1, 2015 - Communication - 15

Submit to me a description of your final project.   Include the purpose of the project, who would use it, and why you have decided to develop this particular software application for your final project. Provide enough detail about the purpose of the project so that any person reading it would have no doubt as to what the project will achieve.

Analysing the Problem - Due: Monday, June 8, 2015 - Communication - 25

Provide pseudo code and/or flowcharts and detailed descriptions for the main body of your program and for each of the user-defined functions that your program will use.

Provide the details for the text file(s).   Include information about the information stored in the text file(s). Provide an example of the text file(s).

Any screen shots that help explain the program would be very beneficial.

This document should contain a title page, table of contents and a section for the main body, each procedure, each function and each text file.

Creating and Testing the Solution - Due: Wednesday, June 17, 2015 - Application – 85 - Thinking/Inquiry - 85

Complete your project and submit it to me.

Documenting the Solution - Due: Wednesday, June 17, 2015 - Communication - 25

Make certain that your program is properly documented.

MARKING RUBRIC

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Defining the Problem	**Information Provided**				
Purpose of Program	None	Little	Some	Most	All
Description of Users	None	Little	Some	Most	All
Reason For Choosing this Project	None	Little	Some	Most	All
Analysing the Problem	**Detail Provided**				
Title Page / Table of Contents	None	Little	Some	Most	All
Pseudo code / Flowcharts - Main Body	None	Little	Some	Most	All
Pseudo code / Flowcharts – User-Defined Functions	None	Little	Some	Most	All
Text File Information	None	Little	Some	Most	All
Creating and Testing the Solution	**Detail Provided**				
Level of Completeness	None	Little	Some	Most	All
User Friendly (Easy to Read Information and Follow Instructions)	None	Little	Some	Most	All
All Input Verified With Appropriate Messages If Necessary	None	Little	Some	Most	All
Program Runs Without Crashing	None	Little	Some	Most	All
Efficient Coding	None	Little	Some	Most	All
Accurate Output	None	Little	Some	Most	All
Looping	None	Little	Some	Most	All
Decision Making	None	Little	Some	Most	All
User – Defined Functions	None	Little	Some	Most	All
Strings	None	Little	Some	Most	All
Arrays (1-D)	None	Little	Some	Most	All
Arrays (2-D)	None	Little	Some	Most	All
Text Files	None	Little	Some	Most	All
Graphics	None	Little	Some	Most	All
Documenting the Solution	**Detail Provided**				
Commenting	None	Little	Some	Most	All