ITCS 2530 - Final Project Statement of Work Template

Group Number:	4
Group Leader:	Brandon Dostert

Names of Group Members:	Robert Fox, Robert Kern, Brandon Dostert

Summary of what your program will do (be very specific or you will be asked to do it again):

Our program will show an input menu and prompt the user to enter a char to choose between seeing a help menu, entering a date, and quitting out of the program. Once the user enters a date the program stores it as an array and sends it to a function that checks this date with a file that contains the start date, end date, presidents' name, and terms served. This function will compare the date given as an input with the start and end dates from the text file stored as arrays. After iterating through the arrays the function will get the presidents' name and terms served that responds with the date range found. These variables will then be sent to a function that outputs the information to the console and to a text file. Finally main() will call each of the functions with their respective parameters.

Introduction Function:

Prompts user to enter a date, enter (h) to see a help menu, enter (q) to quit. Stores input as int arrays. Outputs error message if date entered is outside of range.

readDates Function:

Opens a text file containing start date, end date, presidents' name, and terms served. Finds the values of start date and end date and stores each into arrays. Takes the values of the arrays given in Introduction function and compares them with the values found in the text file. If the value given in introduction was valid, the function gets the corresponding presidents name and terms served from the text file. If date is not valid the function outputs an out of bounds error.

Output Function:

Outputs results to console and to a text file. Output will include the original user input and each value returned by readDates function. Format will follow: 'On (input date), (Name of President) was in office from (dates from readDates function). Text file will be titled "results.txt"

Main:

Defines and initializes variables for: input used in Introduction, start date, end date, presidents name, and terms served. Calls Introduction function. Calls readDates function with parameters (start date, end date, presidents name, terms served). Calls Output function with parameters (start date, end date, presidents name, terms served).

Decomposition with Assignments:

Use the space to list the decomposition or outline of your program. Next to each section, provide the name of the student who will be working on that portion.

What will be done	Who will do it
Introduction function	Robert Fox
Read function with corresponding text file for input	Robert Kern
Output function	Brandon Dostert
Main function	Robert Fox