Assignment 1 Testing

Reg Number: 1703055

The following document contains demonstrations and tests to show correct response of the GUI to each user input / button press event. With the following labelled screen shots I will show how my submission meets the assignment criteria.

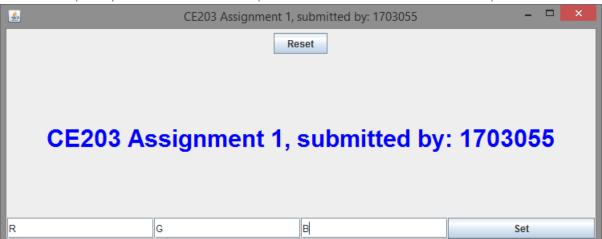
Exercise 1

"The colour class has a constructor with 3 arguments, allowing the user to create a Colour object by providing RGB values"

"a frame-based application that allows the user to specify RGB values in three text fields, and, when a button is pressed, displays your registration number in the chosen colour"

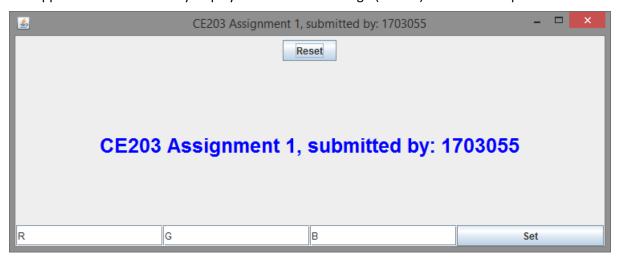


"The button and the input fields should be placed at the bottom of the frame, and the text should be written on a panel positioned at the centre (on both the horizontal and vertical axis)."

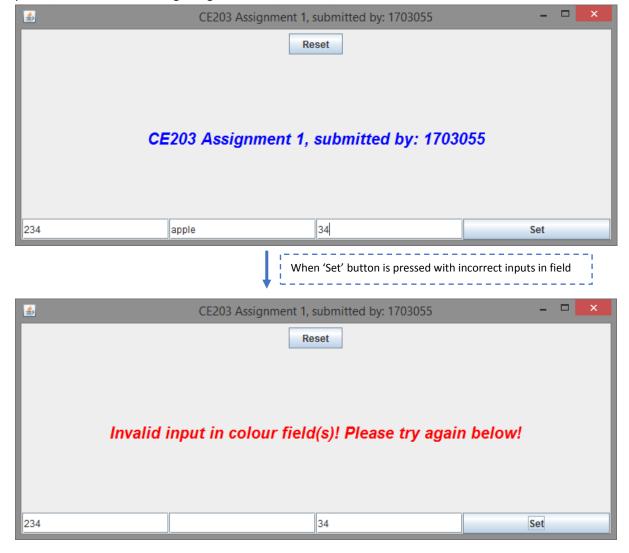


"The program should contain the following features:"

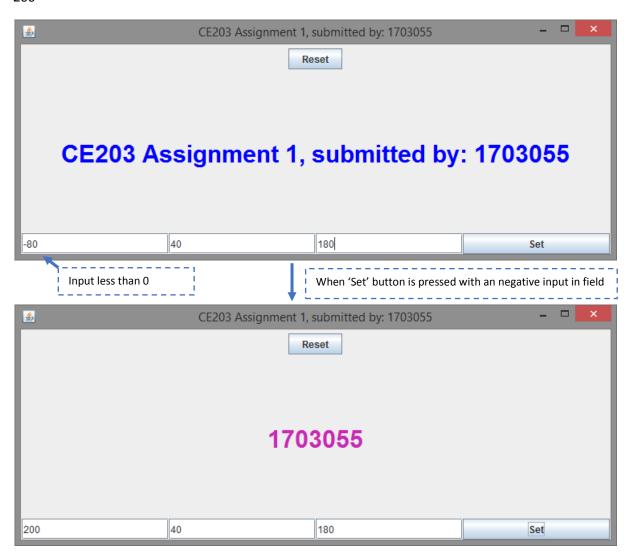
a) The application should initially display the welcome message (in blue) on the centre panel



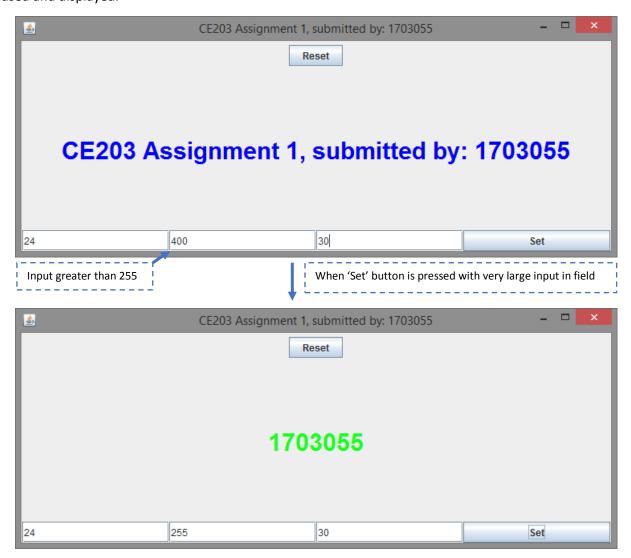
b) If, when the button is pressed, the content of any of the text fields is not an integer, the invalid field(s) should be cleared and an appropriate message should appear on the centre panel; text fields containing integers should, however, never be cleared.



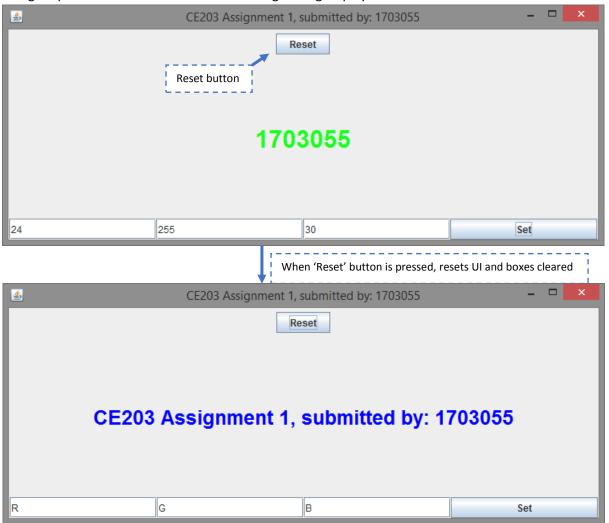
 c) If any of the text fields contain a value less than 0, the value 200 should be used in its place when generating the colour – the displayed value in the text field should also be changed to 200



c) (Continued) If any of the fields contains a number greater than 255, the value 255 should be used and displayed.



d) a "Reset" button at the top of the application which, if pressed, will result in all text fields being emptied and the initial welcome message being displayed.



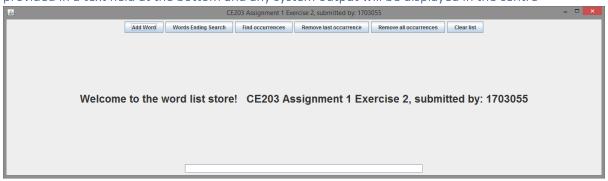
e) Any possible exceptions should be captured by the program.

All possible errors, exceptions or otherwise are handled by the program. For example, with incorrect inputs the following message is shown.



Exercise 2

"The layout should be such that any buttons will be displayed at the top of the panel, user input is provided in a text field at the bottom and any system output will be displayed in the centre"

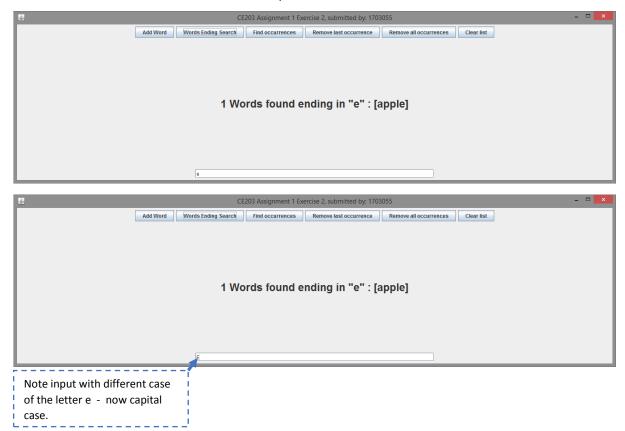


"The application should provide features and corresponding buttons that allow the user to"

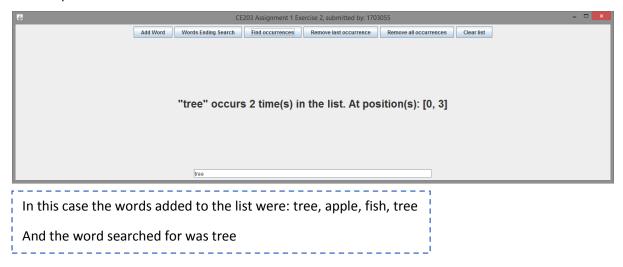
a) add a word to the list (the word to be added is supplied in a text field at the bottom of the application).



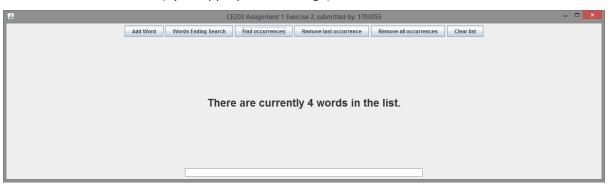
b) display all the words from the list that end with a specified letter. Method is case-insensitive too, as demonstrated with both 'E' and 'e' inputs as shown below



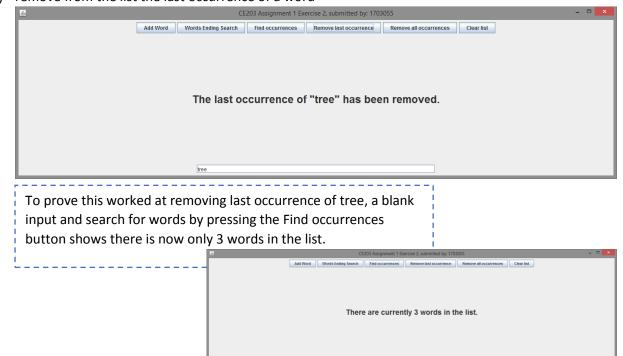
c) search the list for a word (provided in the text field) and display how many times it is found and the positions in the list in which it is found



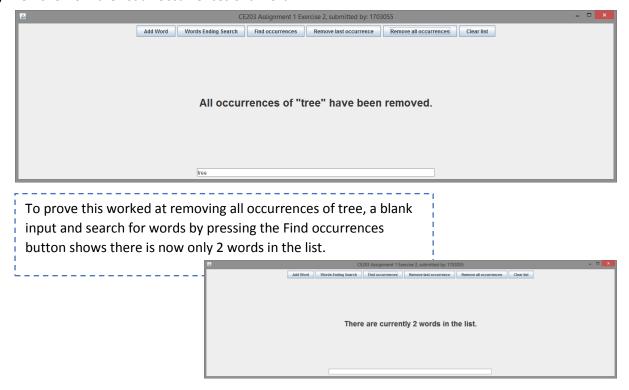
c) if the text field is empty when this button is pressed, then the system should display the total number of all words in the list (by an appropriate message)



d) remove from the list the last occurrence of a word



e) remove from the list all occurrences of a word



f) clear the list

