Start

MainForm\_Load Event

Set tab order

End MainForm\_Load Event

btnDisplay\_Click Event

Read user input into itemNumber

Define validColors as "rgbw"

Determine color based on the third character of itemNumber:

- If the third character is "r", set color to "Red"

- If the third character is "g", set color to "Green"

- If the third character is "b", set color to "Blue"

- If the third character is "w", set color to "White"

- Otherwise, set color to "Invalid"

Check if itemNumber has exactly 5 characters:

- If not, display an error message and focus on txtItem

- Otherwise, proceed to the next check

Check if the third character of itemNumber is in validColors:

- If not, display an error message and focus on txtItem

- Otherwise, proceed to display the color

Display the determined color in lblColor

End btnDisplay\_Click Event

txtItem\_TextChanged Event

Clear the text in lblColor when the text in txtItem changes

End txtItem\_TextChanged Event

txtItem\_Enter Event

Select all text in txtItem when it gains focus

End txtItem\_Enter Event

MainForm\_FormClosing Event

Confirm if the user wants to exit the application

If the user doesn't want to exit, cancel the form closing

End MainForm\_FormClosing Event

btnExit\_Click Event

Close the application

End btnExit\_Click Event

End