View and View Hierarchy-02

In this assignment you will start to build an iOS app that will convert temperatures. The outcome of this lab is to setup the user interface for your app and understand the basics of views.

1. Create a new iOS application in Xcode named WorldTrotter.

2. Create a frame and a view programmatically using Swift. Set the view's background color to blue and add it to your screen (also known as your ViewController's view). Run your program and see that the view shows in your app.

3. Create a second frame and a second view programmatically using Swift. Set the view's background color to green and add it to your screen (also known as your ViewController's view). Run your program and see that the view shows in your app.

4. Change your code to add your second view to your first view instead of your ViewController's view. Run your program and see that the view shows in your app.

5. Use comment markers to turn your code from points 2, 3 and 4 into a comment, then continue with the lab.

6. Open your Storyboard. Add 5 labels, and set them up in this order:
   a) Label 1 will hold a Fahrenheit value (for now set this to anything you wish)
   b) Label 2 will say "degrees Fahrenheit"
   c) Label 3 will say "is really"
   d) Label 4 will hold a Celsius value (for now set this to anything you wish)
   e) Label 5 will say "degrees Celsius"

7. Center your labels on the screen (ensure your viewing your app in your Storyboard as an iPhone).

8. Set the background of your screen to a light grey and change your labels to be a different font size and color.

9. Run your app on the simulator using an iPhone and observe that your labels are centered.

10. Run your app on the simulator using an iPad and observe that your labels are not centered.

11. Add constraints to keep your labels in the center and also add constraints to keep them a certain distance from each other.

12. Test your app to ensure it works properly.