### **Assignment** **8- Label Button and Text Field in Swift**

**Lab Assignment: Celsius to Fahrenheit Converter in iOS Swift**

**Objective:**

Learn how to create a simple iOS app to convert temperatures from Celsius to Fahrenheit using Swift.

**Set Up the Project:**

* Create a new Xcode project named TemperatureConverter.
* Choose "App" under iOS and set the language to Swift.

**Design the User Interface:**

* Open the storyboard file (Main.storyboard).
* Drag and drop the necessary UI elements onto the canvas:
* Add a UITextField for entering the temperature in Celsius.
* Add a UILabel to display the converted temperature in Fahrenheit.
* Add a UIButton for triggering the conversion process.

**Implement the Conversion Logic:**

* Create an IBAction connection for the button to a method named convertButtonTapped(\_:).
* Implement the convertButtonTapped(\_:) method to:
* Retrieve the temperature value entered by the user from the text field.
* Convert the temperature from Celsius to Fahrenheit using the conversion formula:



* Update the text of the label to display the converted temperature in Fahrenheit.

**App UI View:**

A screen shot of a phone

Description automatically generated

**Test the App:**

* Run the app on a simulator or a physical device.
* Enter a temperature value in Celsius into the text field.
* Tap the conversion button to trigger the conversion process.
* Verify that the converted temperature in Fahrenheit is displayed correctly in the label..