## CS 442 Mobile Applications Development (Android Section)

## CS 442: Mobile Applications Development

## **Assignment 1 – Temperature Converter**

Your assignment is to create a Temperature Conversion app as described below.

## **App Requirements**

- The app should allow the user to select either Fahrenheit-to-Celsius or Celsius-to-Fahrenheit conversions. No other conversion selections should be allowed, and one conversion must be selected at any given time (no situation where *no* conversion is selected).
- Your Activity must use a Constraint Layout
- User the following formulae for conversion:

- The initial temperature value should be entered by the user.
- Pressing a Convert button should calculate the converted temperature value and display it on the screen. Converted values should be displayed out to 1 decimal place only.
- The conversion operation, value, and calculated results are added to the "history":
  - Example:

■ F to C: 55.0 → 12.8

■ C to F: 3.5 → 38.3

- The app must look and act consistently in either portrait or landscape orientation.
- Concepts and practices discussed in class must be followed.
- The below is an example of how the app might look. Note, you do NOT need to make yours look like this. You are free to use your own creativity in designing the UI for this app. The only stipulation is that all the content mentioned above is present in the app.

