Homework 02 – Linear Layout, Padding, and Layout Parameters
Due: Day 10 – February 21st, 2022 (beginning of class)

Objective:

The goal of this assignment is for you to understand how the linear layout, padding, and layout parameters work in re-creating a provided Android layout.

Instructions:

For this assignment, you will be using **only LinearLayout**(s) to recreate the final layout, given the corresponding design specifications that I have provided below. Your rendered layout in the AVD should be identical to the final layout screenshot that I have provided below (note: points will be deducted for each missing/different element). The design specification provides the type of View ("widget") that I used and shows the boundary of each View ("widget") as a black outlined rectangle – you must ensure that the boundary of your Views matches the boundaries in the design specification (note: points will be deducted for each View whose boundary is different). The red curly braces in the design specification indicate the amount of space either (a) between Views or (b) within a View – you must ensure that the space between/within a View matches those explicitly listed (note: points will be deducted for any spacing that is missing/different). Finally, the blue text indicates attributes of the Views that will need to be modified as well as descriptions of when View(s) are centered horizontally on the screen.

Steps:

1. Create a new empty Android Studio project
   (your package name must be your first and last name for grading purposes)
2. Create a new empty Activity named **TipActivity** inside your project that has both a controller file and layout file
   (note: you will not be making any changes to the .java controller file)
3. Open the layout file of your TipActivity
4. Right-click on the root of your layout (i.e., ConstraintLayout) >> select **Convert view ...** >> select **LinearLayout** in the list >> **Apply**
5. Begin re-creating the layout, given the corresponding design specifications below
6. **Important**: Each time that you add a View to a Linear Layout, you will need to ensure the View's **layout_weight**
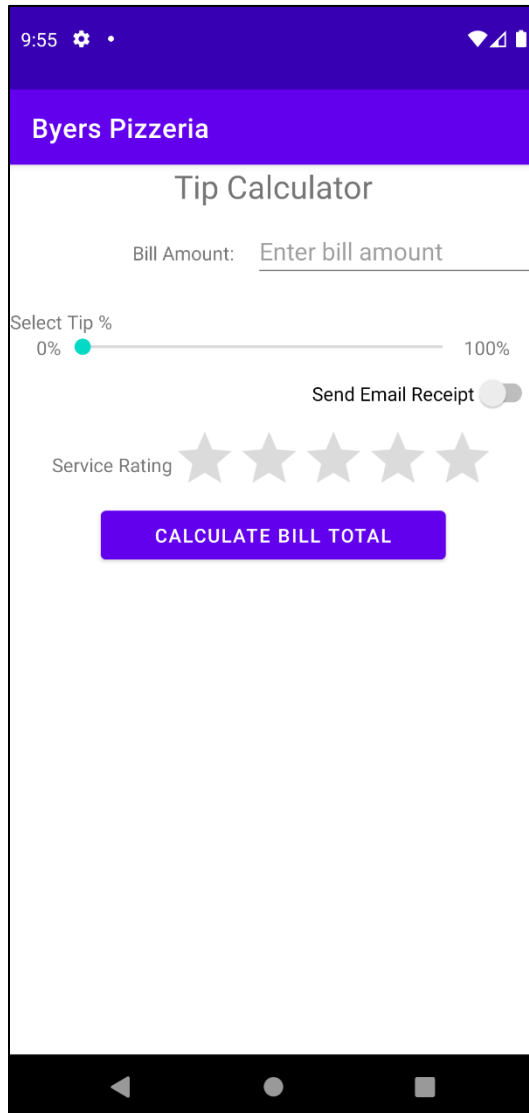   parameter is set to **0** before you adjust its attributes

Tips:

- Start from the top and work your way downward to recreate the layout
- You will need to nest LinearLayouts inside of your root LinearLayout at certain points
- Remember, LinearLayouts are Views too and have layout parameters that you may need to change
- You may find it easier to drag-and-drop elements into the appropriate position using the Component Tree subwindow of the Layout Editor. Also, it is easier to re-arrange/nest elements by dragging them around in the Component Tree

When you are finished, you must **zip** your Android Studio project. On Moodle, you should upload your zip file to the Homework 02 assignment box

FINAL LAYOUT

DESIGN SPECIFICATION