

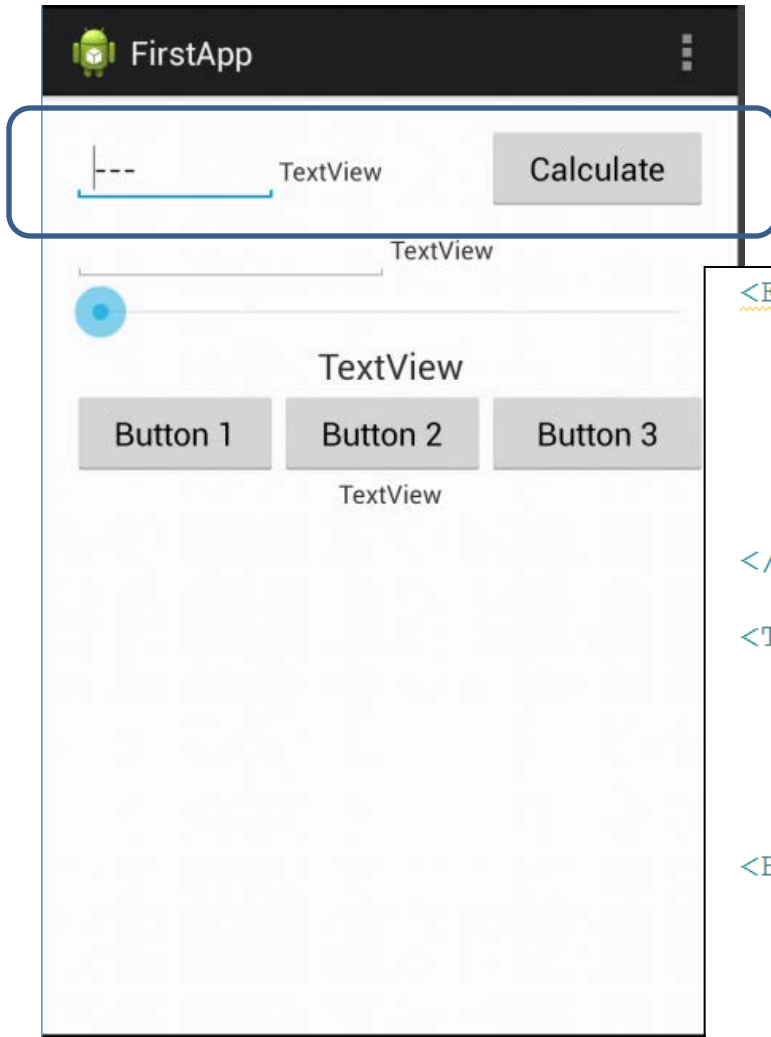
Creating a Conversion App

EditText

TextView

Button

1. XML for Top Row



```
<EditText
    android:id="@+id/editText"
    android:layout_weight="0.33"
    android:layout_height="wrap_content"
    android:text = "---"
    />

</EditText>

<TextView
    android:id="@+id/textView"
    android:layout_weight="0.33"
    android:layout_height="wrap_content"
    android:text="TextView" />

<Button
    android:id="@+id/calculateButton"
    android:layout_weight="0.33"
    android:layout_height="wrap_content"
    android:onClick = "calculateCtoF"
    android:text="Calculate" />
```

2. Java Fields on MainActivity.java

```
10
11 public class MainActivity extends Activity {
12
13     // Fields
14     private Button button01;
15     private Button button02;
16     private Button button03;
17     private TextView displayText;
18
19     private EditText editText;
20     private TextView textView;
21     private Button calculateButton;
22
```

3. Bind Fields to XML in onCreate()

```
@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);

    // Bind to XML Objects
    button01 = (Button) findViewById(R.id.button01);
    button02 = (Button) findViewById(R.id.button02);
    button03 = (Button) findViewById(R.id.button03);
    displayText = (TextView) findViewById(R.id.textDisplay);

    editText = (EditText) findViewById(R.id.editText);
    textView = (TextView) findViewById(R.id.textView);
    calculateButton = (Button) findViewById(R.id.calculateButton);
}
```

4. Write the calculateCtoF() function

```
64
65 // Calculate Celsius to F
66 public void calculateCtoF(View v) {
67     // Get Data from textView
68     Editable input = editText.getText();
69     // Convert to a string
70     String inputString = String.valueOf(input);
71     // Convert to a Float
72     float celsius = Float.valueOf(inputString);
73
74     // Do the math
75     float fah = (float) (celsius * 1.8 + 32.00);
76
77     // Convert to String and Display
78     textView.setText(String.valueOf(fah));
79 } // end calculateCtoF
80
```

5. Test and Run on Emulator!

