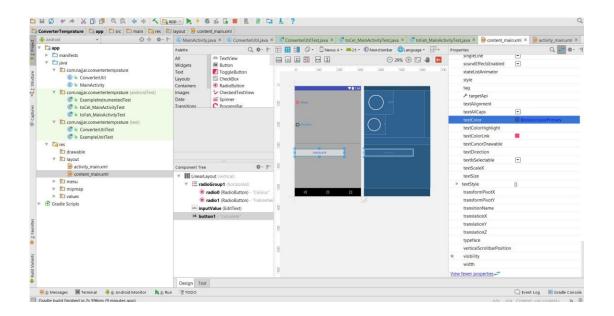
# **Android Studio**

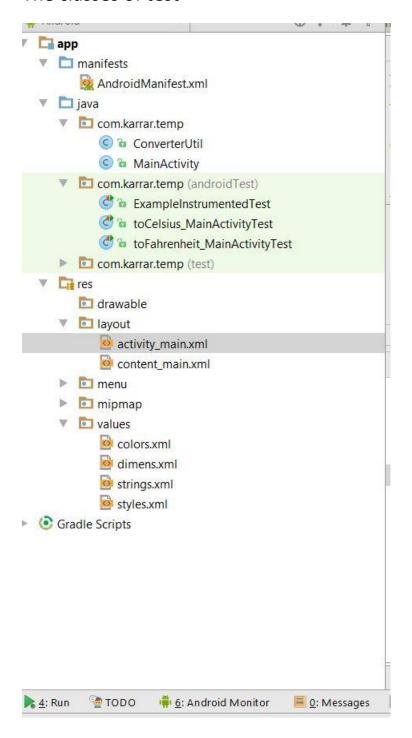
Android Studio is Android's official IDE. It is purpose built for Android to accelerate your development and help you build the highest-quality apps for every Android device.

It offer tools custom-tailored for Android developers, including rich code editing, debugging, testing, and profiling tools.

## My Application



### The classes of test



THIS code for toCelsius\_MainActivityTest

public ActivityTestRule<MainActivity> mActivityTestRule = new
ActivityTestRule<> (MainActivity.class);

```
@Test
public void mainActivityTest() {
    ViewInteraction editText = onView(
```

```
allOf(withId(R.id.inputValue), isDisplayed()));
        editText.perform(click());
        ViewInteraction editText2 = onView(
                allOf(withId(R.id.inputValue), isDisplayed()));
        editText2.perform(replaceText("212"), closeSoftKeyboard());
        ViewInteraction radioButton = onView(
                allOf(withId(R.id.radio0), withText("to Celsius"),
                        withParent(withId(R.id.radioGroup1)),
                        isDisplayed()));
        radioButton.perform(click());
        ViewInteraction button = onView(
                allOf(withId(R.id.button1), withText("Calculate"),
isDisplayed()));
       button.perform(click());
        ViewInteraction editText3 = onView(
               allof(withId(R.id.inputValue), withText("100.0"),
isDisplayed()));
       editText3.perform(click());
}
and This code for toFahrenheit MainActivityTest
package com.karrar.temp;
import android.support.test.espresso.ViewInteraction;
import android.support.test.rule.ActivityTestRule;
import org.junit.Rule;
import org.junit.Test;
import static android.support.test.espresso.Espresso.onView;
import static android.support.test.espresso.action.ViewActions.click;
import static
android.support.test.espresso.action.ViewActions.closeSoftKeyboard;
import static
android.support.test.espresso.action.ViewActions.replaceText;
import static
android.support.test.espresso.matcher.ViewMatchers.isDisplayed;
import static android.support.test.espresso.matcher.ViewMatchers.withId;
android.support.test.espresso.matcher.ViewMatchers.withParent;
import static
android.support.test.espresso.matcher.ViewMatchers.withText;
import static org.hamcrest.Matchers.allOf;
public class toFahrenheit MainActivityTest {
   public ActivityTestRule<MainActivity> mActivityTestRule = new
ActivityTestRule<> (MainActivity.class);
   public void toFahrenheit MainActivityTest() {
       ViewInteraction editText = onView(
                allOf(withId(R.id.inputValue), isDisplayed()));
        editText.perform(click());
```

```
ViewInteraction editText2 = onView(
                allOf(withId(R.id.inputValue), isDisplayed()));
        editText2.perform(replaceText("212"), closeSoftKeyboard());
        ViewInteraction radioButton = onView(
                allOf(withId(R.id.radio1), withText("to Fahrenheit"),
                        withParent(withId(R.id.radioGroup1)),
                        isDisplayed()));
        radioButton.perform(click());
        ViewInteraction button = onView(
                allOf(withId(R.id.button1), withText("Calculate"),
isDisplayed()));
        button.perform(click());
        ViewInteraction editText3 = onView(
                allOf(withId(R.id.inputValue), withText("413.6"),
isDisplayed()));
       editText3.perform(click());
    }
}
```

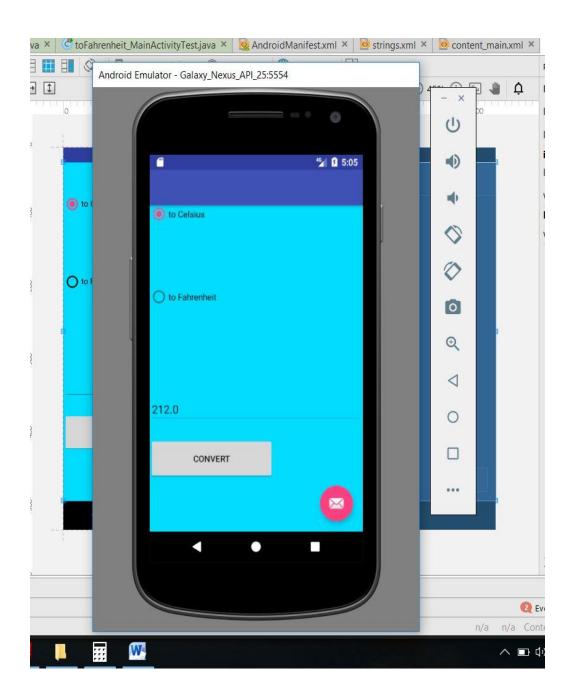
### Unit test class

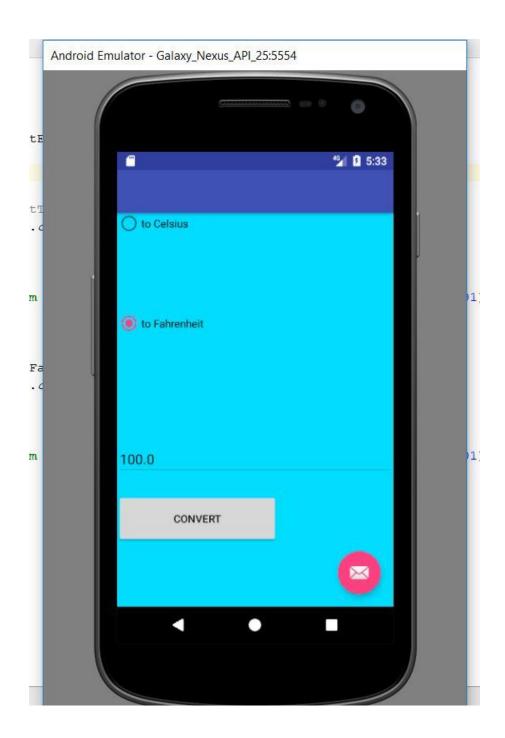
```
manifests
AndroidManifest.xml
                                                                     package com.karrar.temp;
iava java
                                                                     import org.junit.Test;
 ▼ 🛅 com.karrar.temp
                                                                     import static org.junit.Assert.assertEquals;
       © & ConverterUtil
 com.karrar.temp (androidTest)
                                                                     public class ConverterUtilTest {
       © a ExampleInstrumentedTest
© a toCelsius_MainActivityTest
© a toFahrenheit_MainActivityTest
                                                                           public void testConvertFahrenheitToCelsius() {
    float actual = ConverterUtil.convertCelsiusToFahrenheit(100);
com.karrar.temp (test)
ConverterUtilTest
                                                                                 assertEquals("Conversion from celsius to fahrenheit failed", expected, actual, 0.001);

<sup>™</sup> ExampleUnitTest

   drawable
▼ 🛅 layout
                                                                          public void testConvertCelsiusToFahrenheit() (
float actual = ConverterUtil.convertFahrenheitToCelsius(212);
// expected value is 100
float expected = 100;
       activity_main.xml
content_main.xml
▶ 🛅 menu
▶ impmap
                                                                                 assertEquals("Conversion from celsius to fahrenheit failed", expected, actual, 0.001);
       olors.xml
       dimens.xml
        strings.xml
       styles.xml
Gradle Scripts
```

THIS IS THE RESULT





# THANK YOU KARRAR AL-JAMMALI E5W0C3