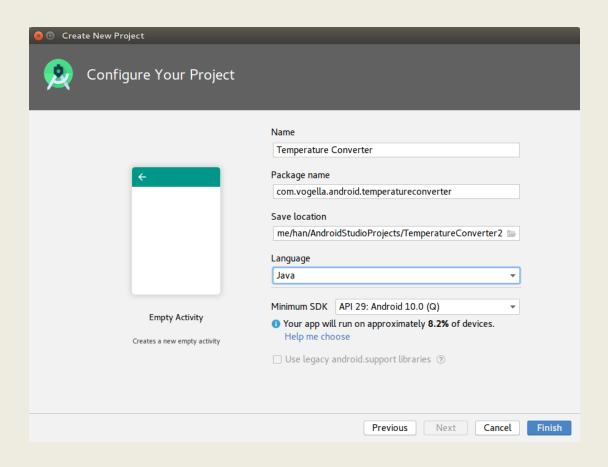


Embedded System Android Exercise

2016311821 한승하

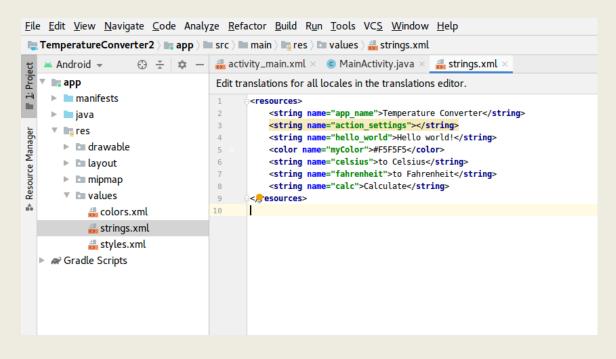


Making new project

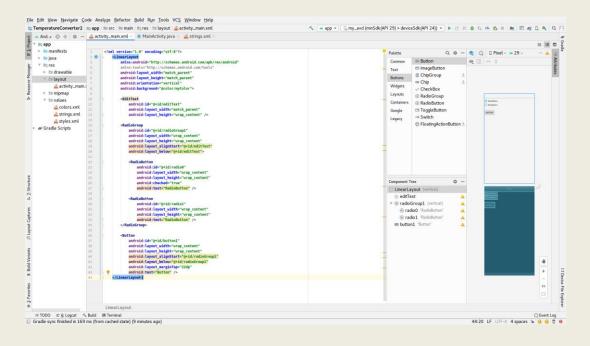


□ 먼저 Temperature convertor를 만들기 위한 새로운 project를 만들어 주었습니다.

Strings.xml



□ 이후 설명에 따라 strings.xml을 설정해 주었습니다.

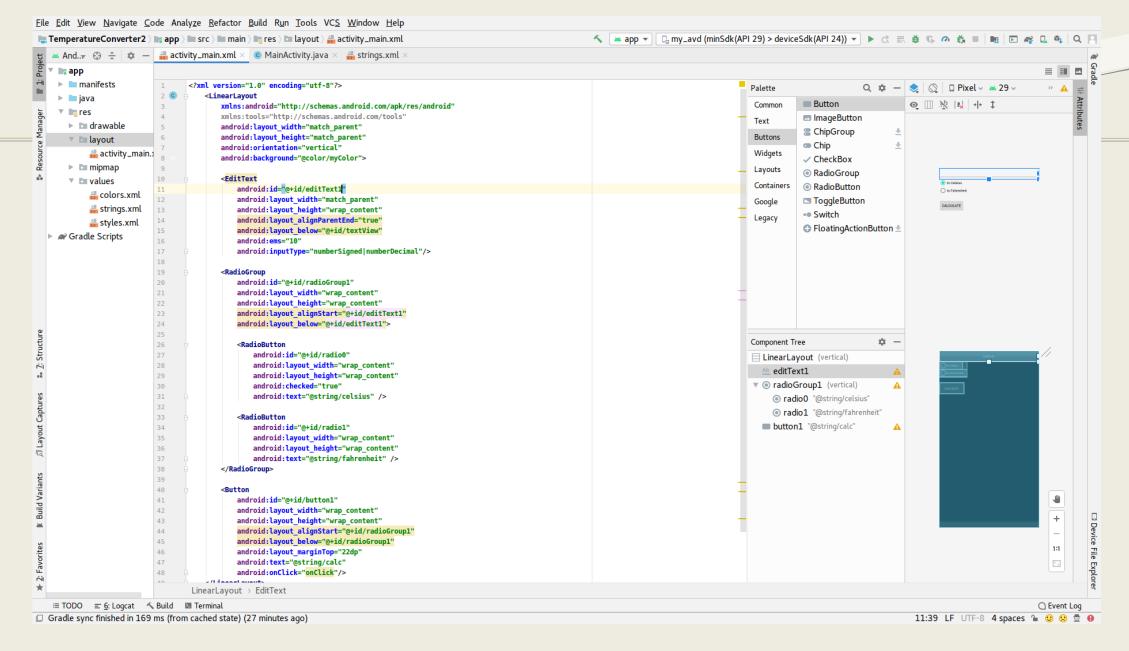


□ 다음은 activity_main.xml 파일을 수정하여 applicatio의 화면 layout을 설정해 주었습니다.

RadioGroup

```
<RadioGroup
   android:id="@+id/radioGroup1"
   android:layout width="wrap content"
   android:layout height="wrap content"
   android:layout alignStart="@+id/editText"
   android:layout below="@+id/editText">
    <RadioButton
       android:id="@+id/radio0"
       android:layout width="wrap content"
       android:layout height="wrap content"
       android:checked="true"
       android:text="@string/celsius" />
    <RadioButton
       android:id="@+id/radio1"
       android:layout width="wrap_content"
       android:layout_height="wrap_content"
       android:text="@string/fahrenheit" />
</RadioGroup>
```

□ Radio Group의 상세 코드를 설 정해 주었습니다.



모든 코드 수정을 완료한 버전입니다. Tutorial의 예시를 따라 진행하였습니다.

Util code

```
package com.vogella.android.temperatureconverter;

public class ConverterUtil {
    public static float convertFahrenheitToCelsius(float fahrenheit) {
        return ((fahrenheit - 32) * 5 / 9);
    }

public static float convertCelsiusToFahrenheit(float celsius) {
        return ((celsius * 9) / 5 ) + 32;
    }
}
```

□ Util code를 작성해 주었습니다.

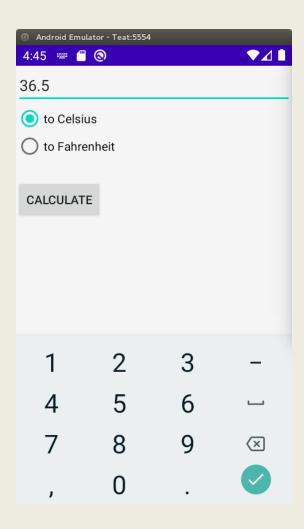
```
<u>F</u>ile <u>E</u>dit <u>V</u>iew <u>N</u>avigate <u>C</u>ode Analy<u>z</u>e <u>R</u>efactor <u>B</u>uild R<u>u</u>n <u>T</u>ools VC<u>S <u>W</u>indow <u>H</u>elp</u>
 🜉 TemperatureConverter 2 ) 🟬 app ) 🖿 src ) 🖿 main ) 🖿 java ) 🖿 oom ) 🖿 vogella ) 🖿 android ) 🖿 temperatureconverter ) 🔞 MainActivity
                                                                                                                                                                     👸 😤 🛊 🗕 🚜 activity_main.xml × 🏿 MainActivity.java × 📽 ExampleUnitTest.java × 🕲 Activity.java × 🕲 ConverterUtil.java × 📽 ExampleInstrumentedTest.java × 🚜 strings.xml
                                            package com.vogella.android.temperatureconverter;
     manifests
                                            import android.app.Activity;
                                            import android.os.Bundle;
       com.vogella.android.tempe
                                            import android.view.View;
                                            import android.widget.EditText;
            ConverterUtil
                                            import android.widget.RadioButton;
            MainActivity
                                            import android.widget.Toast;
       com.vogella.android.tempe
                                            public class MainActivity extends Activity{
       com.vogella.android.tempe
                                                private EditText text;
     ▼ 📭 res
                                                public void onCreate(Bundle savedInstanveState){
       drawable
                                                   super.onCreate(savedInstanveState);
       layout
                                                   setContentView(R.layout.activity_main);
                                                  text = (EditText) findViewById(R.id.inputValue);
            activity_main.xml
       ▶ ➡ mipmap
       values
                                                public void onClick(View view){
                                                   switch(view.getId()){
     Gradle Scripts
       w build.gradle (Project: Temper
                                                           RadioButton celsiusButton = (RadioButton) findViewById(R.id.radio0);
       build.gradle (Module: app)
                                                           RadioButton fahrenheitButton = (RadioButton) findViewById(R.id.radio1);
                                                           if(text.getText().length() == 0){
       🚮 gradle-wrapper.properties (🤇 25
                                                              Toast.makeText( context: this, text: "Please enter a valid number", Toast.LENGTH_LONG).show();
       proguard-rules.pro (ProGuar
        gradle.properties (Project Pro 28
                                                           float inputValue = Float.parseFloat(text.getText().toString());
       if(celsiusButton.isChecked()){
        local.properties (SDK Locatio
                                                              text.setText(String.valueOf(ConverterUtil.convertFahrenheitToCelsius(inputValue)));
                                                              celsiusButton.setChecked(false);
                                                              fahrenheitButton.setChecked(true);
                                                              text.setText((String.valueOf(ConverterUtil.convertCelsiusToFahrenheit(inputValue))));
                                                              fahrenheitButton.setChecked(false);
                                            MainActivity > onCreate()
```

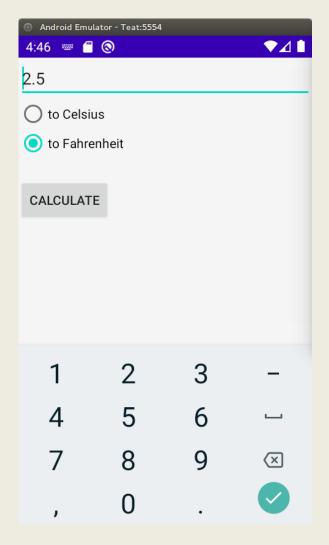
17:57 LF UTF-8 4 spaces 🖢 🙂 🙁 💆

이후 Mainactivity 또한 예시를 따라 수정해 주었습니다.



결과





이후 Emulator를 이용해 실행시켜 작동을 확인해 주었습니다.