# 스마트폰 프로그래밍

# Assign #02

(제목 : Event Handling)

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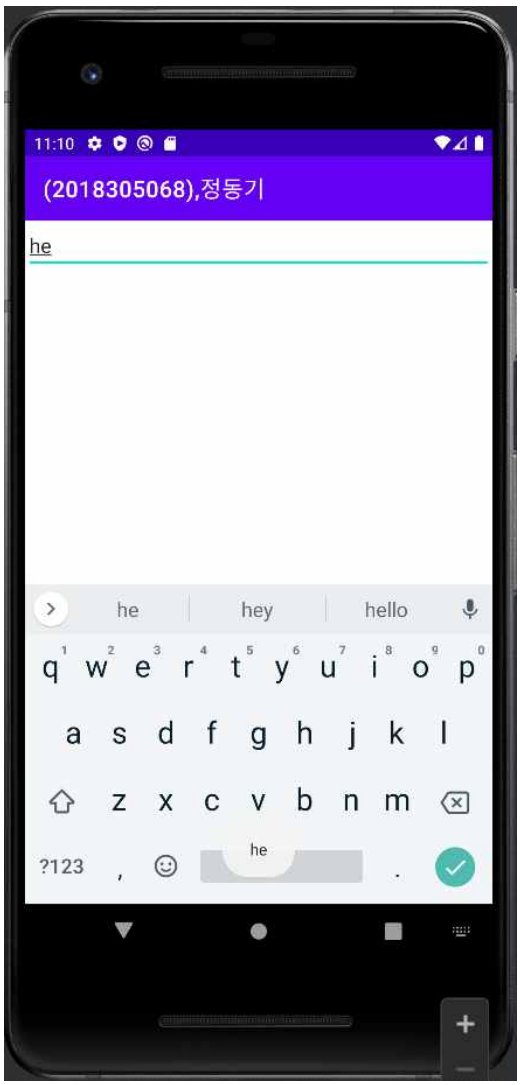
성명 : 정 동 기

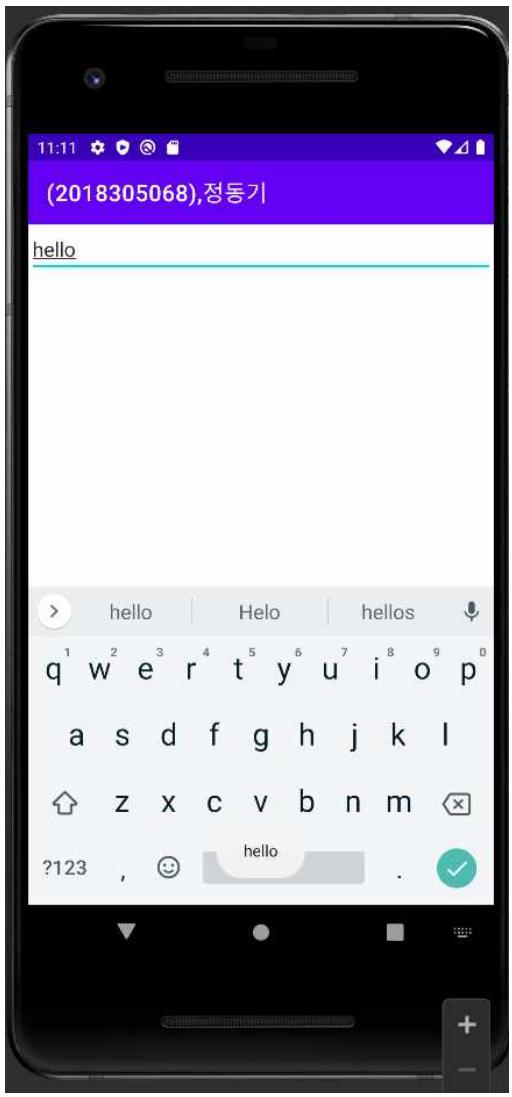
제출일자 : 2022.09.30

본인은 타인이나 다른 매체를 도용하지 않았음을 확인합니다 <정동기>

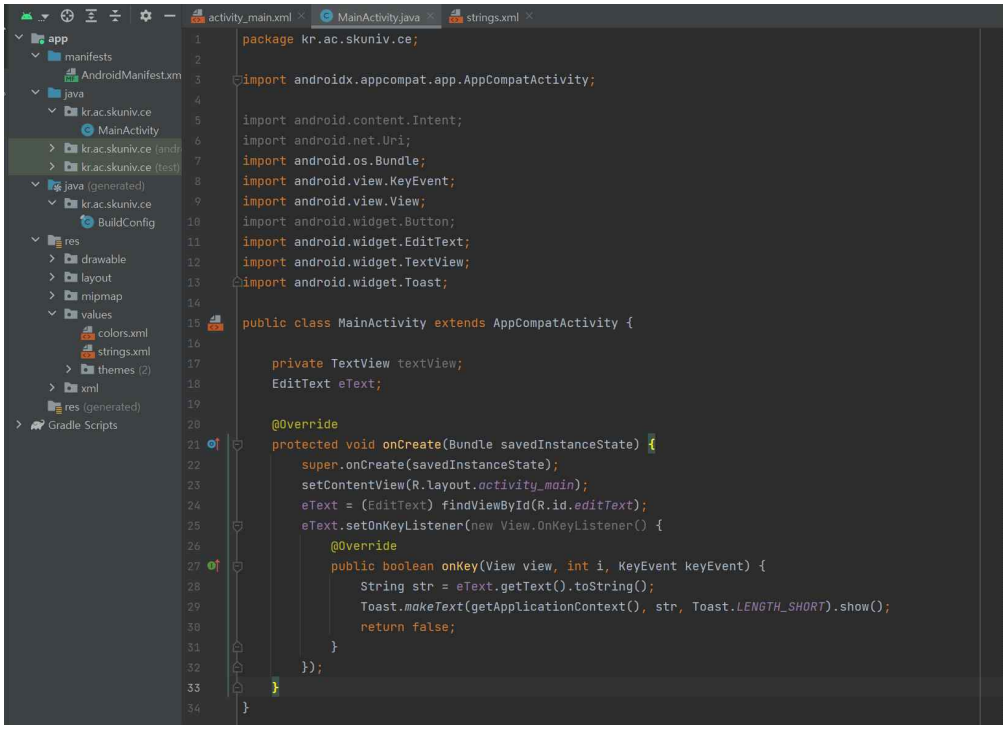
1. 에디트 텍스트에 키가 눌릴 때 마다, 바뀐 글자가 Toast 메시지로 나오도록 프로젝트를 작성하시오.

<실행화면>



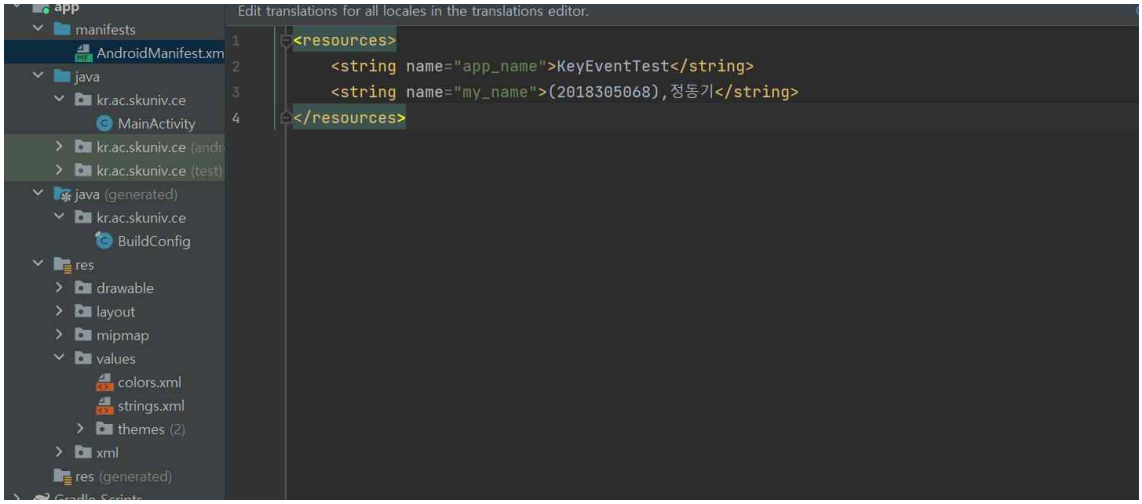



<MainActivity.java>



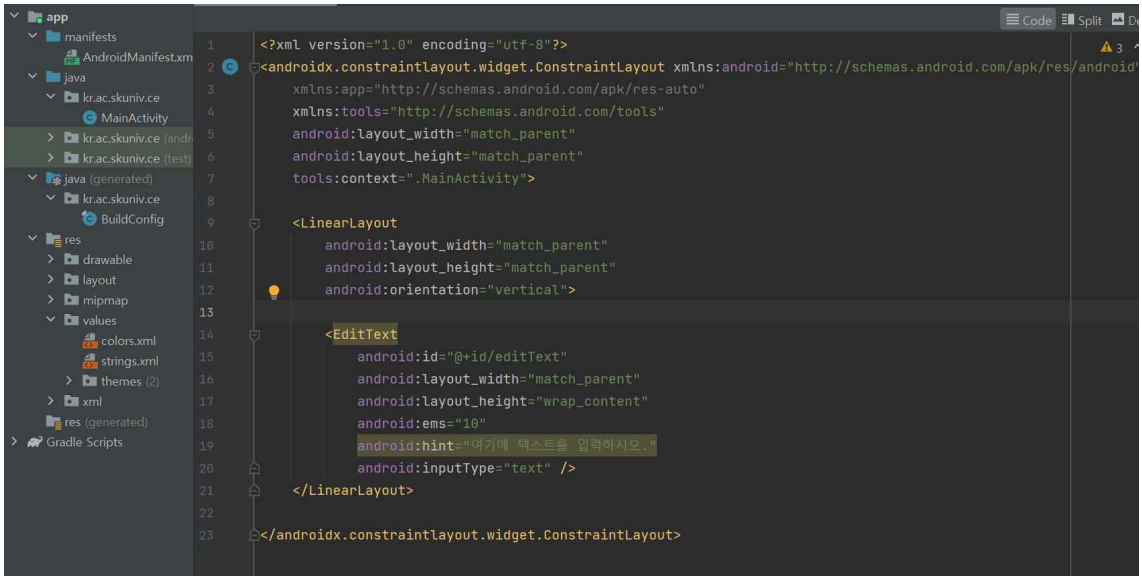

```
package kr.ac.skuniv.ce;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;
import android.net.Uri;
import android.os.Bundle;
import android.view.KeyEvent;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.TextView;
import android.widget.Toast;

public class MainActivity extends AppCompatActivity {

private TextView textView;
EditText eText;

@Override
protected void onCreate(Bundle savedInstanceState) {
super.onCreate(savedInstanceState);
setContentView(R.layout.activity_main);
eText = (EditText) findViewById(R.id.editText);
eText.setOnKeyListener(new View.OnKeyListener() {
@Override
public boolean onKey(View view, int i, KeyEvent keyEvent) {
String str = eText.getText().toString();
Toast.makeText(getApplicationContext(), str, Toast.LENGTH_SHORT).show();
return false;
}
});
}
}
```

<string.xml>




```
<resources>
<string name="app_name">KeyEventTest</string>
<string name="my_name">(2018305068),정동기</string>
</resources>
```

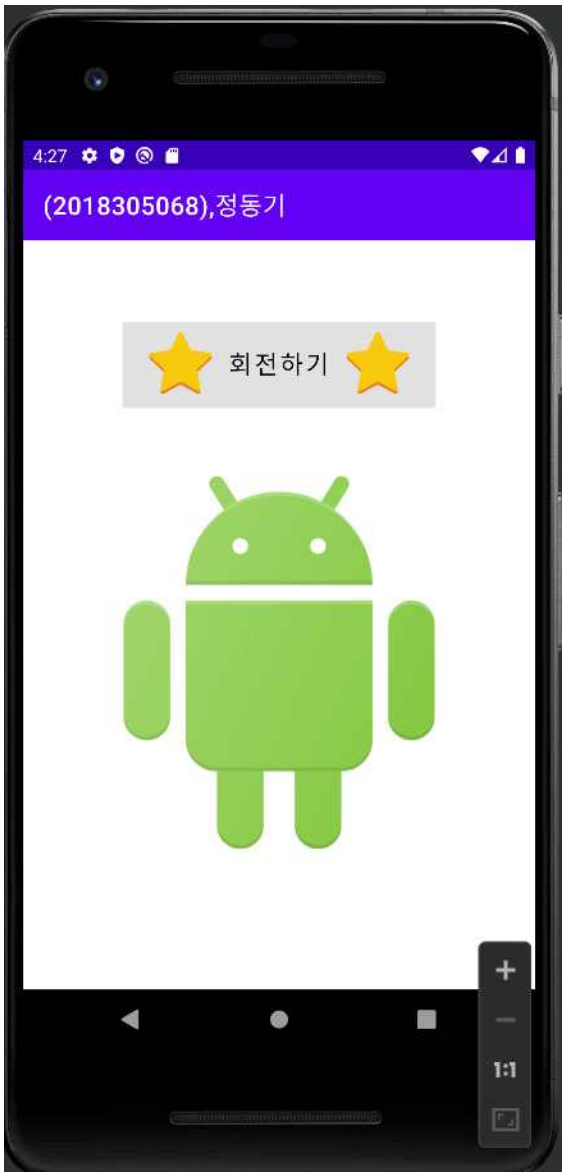
<activity_main.xml>




```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/res/android"
xmlns:app="http://schemas.android.com/apk/res-auto"
xmlns:tools="http://schemas.android.com/tools"
android:layout_width="match_parent"
android:layout_height="match_parent"
tools:context=".MainActivity">

<LinearLayout
android:layout_width="match_parent"
android:layout_height="match_parent"
android:orientation="vertical">

<EditText
android:id="@+id/editText"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:ems="10"
android:hint="여기에 텍스트를 입력하시오."
android:inputType="text" />
</LinearLayout>

</androidx.constraintlayout.widget.ConstraintLayout>
```

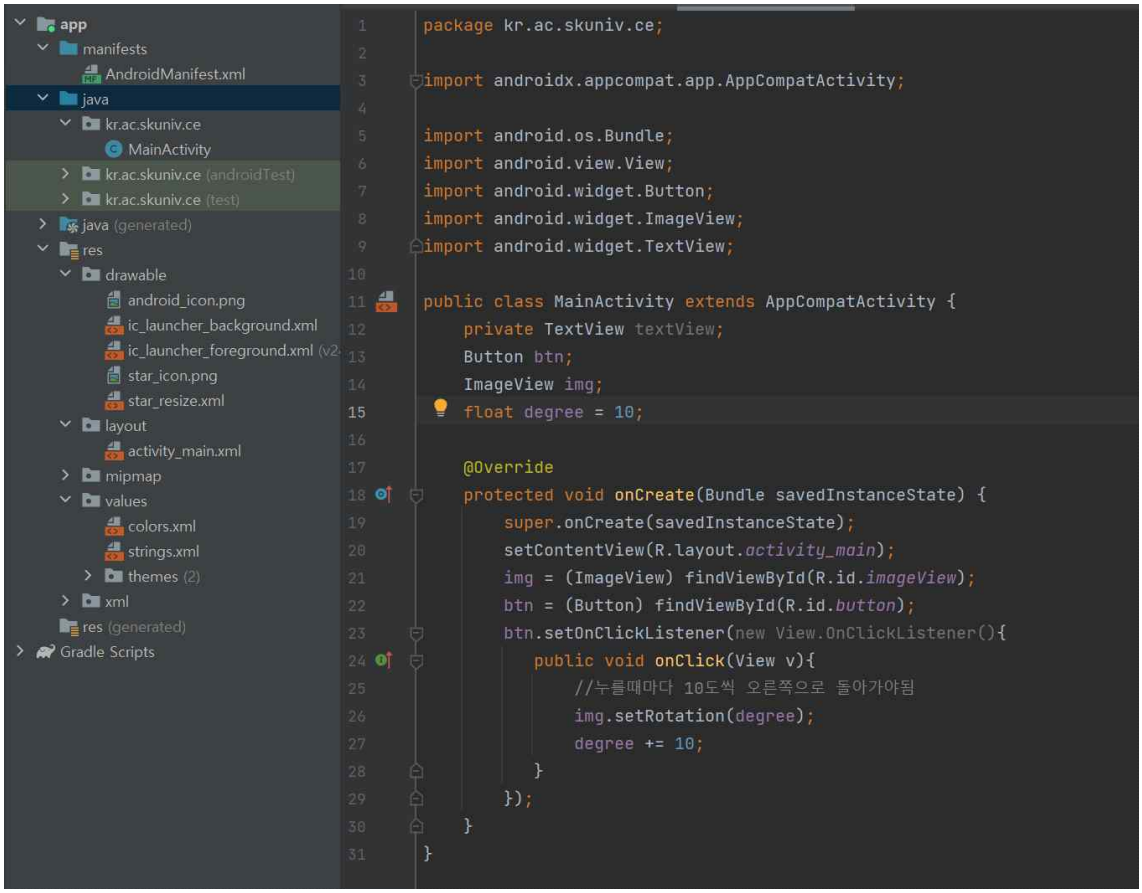
2. 버튼에도 이미지가 들어가도록 할 수 있다. 다음과 같이 버튼을 디자인 하고 클릭하면 이미지가 우측으로 10도씩 회전되도록 프로젝트를 작성하라.

<실행화면>



4:28
(2018305068),정동기
회전하기
1:1

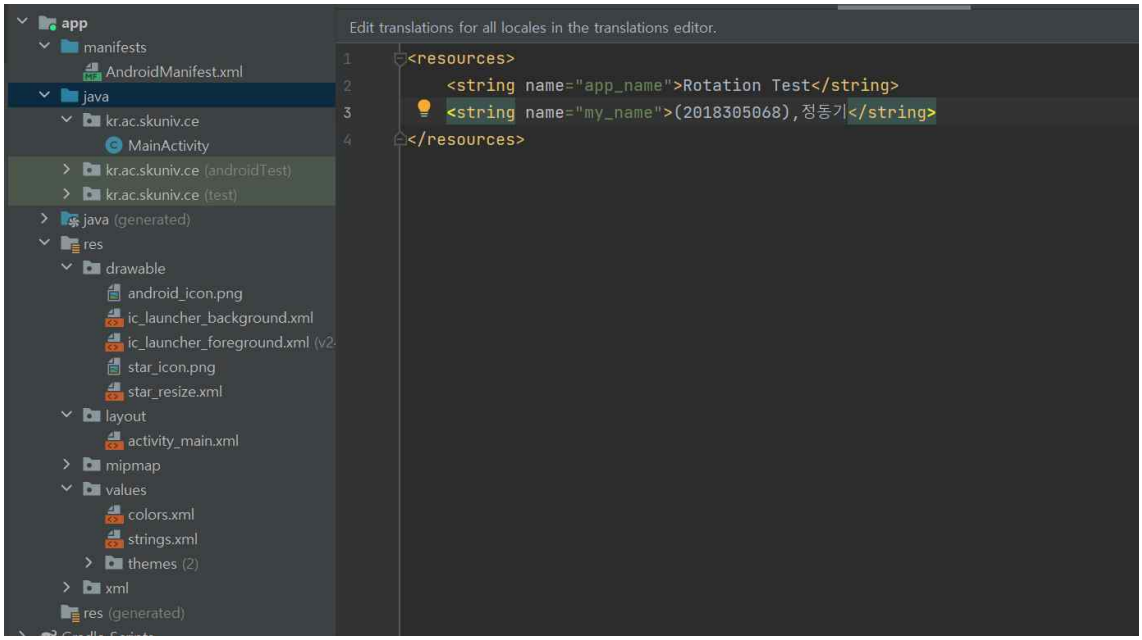
<MainActivity.java>




```
package kr.ac.skuniv.ce;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.ImageView;
import android.widget.TextView;

public class MainActivity extends AppCompatActivity {
private TextView textView;
Button btn;
ImageView img;
float degree = 10;

@Override
protected void onCreate(Bundle savedInstanceState) {
super.onCreate(savedInstanceState);
setContentView(R.layout.activity_main);
img = (ImageView) findViewById(R.id.imageView);
btn = (Button) findViewById(R.id.button);
btn.setOnClickListener(new View.OnClickListener(){
public void onClick(View v){
//누를때마다10도씩 오른쪽으로 돌아가야됨
img.setRotation(degree);
degree += 10;
}
});
```

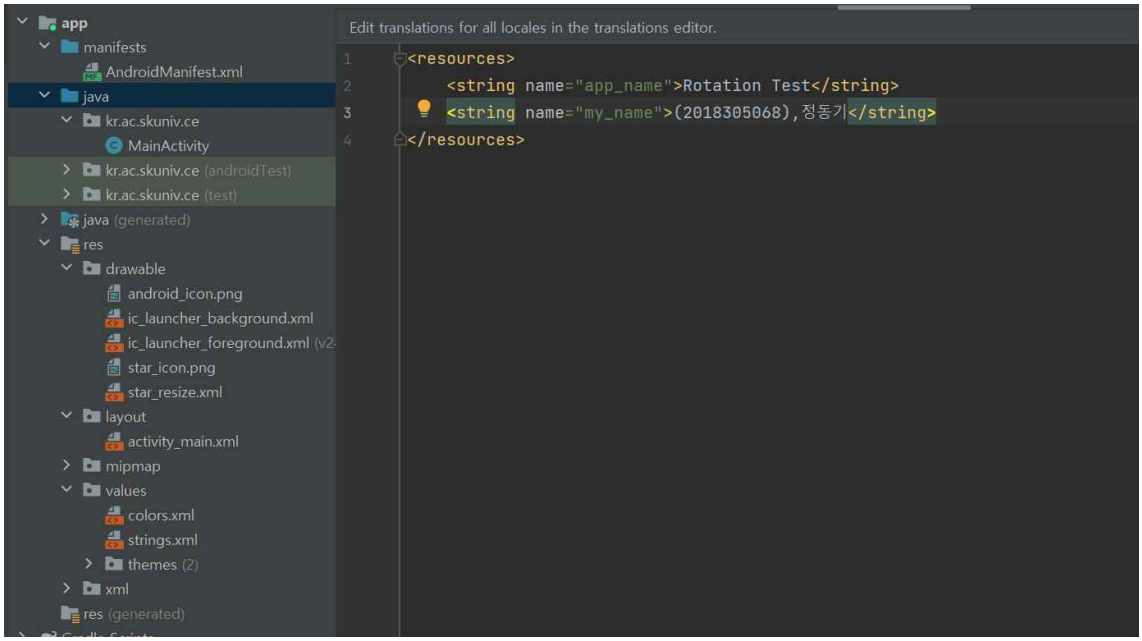
```
}
}
```

<string.xml>



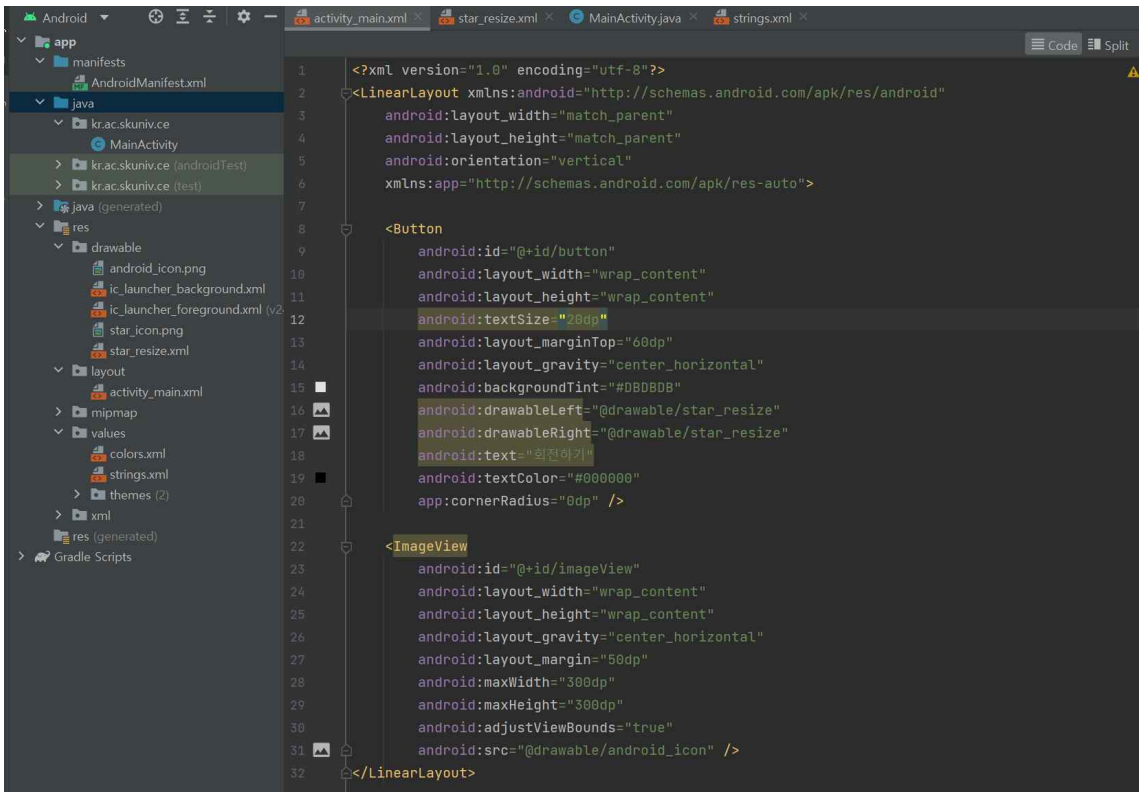

```
<resources>
<string name="app_name">Rotation Test</string>
<string name="my_name">(2018305068),정동기</string>
</resources>
```

<star_resize.xml>(star_icon 크기 지정)




```
<?xml version="1.0" encoding="utf-8"?>
<layer-list xmlns:android="http://schemas.android.com/apk/res/android">
<item
android:width="60dp"
android:height="60dp"
android:drawable="@drawable/star_icon" />
</layer-list>
```

<activity_main.xml>




```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
android:layout_width="match_parent"
android:layout_height="match_parent"
android:orientation="vertical"
xmlns:app="http://schemas.android.com/apk/res-auto">

<Button
android:id="@+id/button"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:textSize="20dp"
android:layout_marginTop="60dp"
android:layout_gravity="center_horizontal"
android:backgroundTint="#DBDBDB"
android:drawableLeft="@drawable/star_resize"
android:drawableRight="@drawable/star_resize"
android:text="회전하기"
android:textColor="#000000"
app:cornerRadius="0dp" />

<ImageView
android:id="@+id/imageView"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_gravity="center_horizontal"
android:layout_margin="50dp"
android:maxWidth="300dp"
android:maxHeight="300dp"
android:adjustViewBounds="true"
android:src="@drawable/android_icon" />
</LinearLayout>
```