

스마트폰 프로그래밍

Assign #04

(제목 : multi Activity 작성)

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본인은 타인이나 다른 매체를 도용하지 않았음을 확인합니다 <정동기>

1. 교재 pp. 331~334에 있는 ActivityForResult Project를 기본을 응용하여 activity_main.xml을 수정하여 4개의 버튼에 연산(+, -, ×, ÷)을 할당하고 해당 버튼을 누르면 입력된 두 숫자를 해당 subactivity에 전달하고 그 결과 반환해 이를 출력하는 Application을 작성하시오. 즉, 4개의 연산에 대응하는 subactivity(예 : subactivity1.java, subactivity2.java, subactivity3.java, subactivity4.java)를 작성한다. 또한 subactivity들은 화면을 만들지 않고 연산하고 그 결과만 반환한다.

<실행화면>



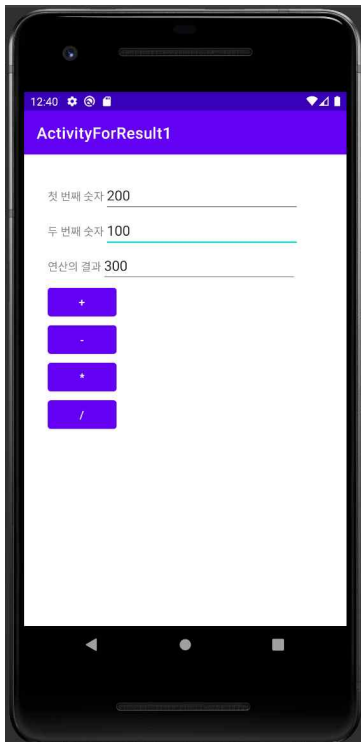


그림 더하기

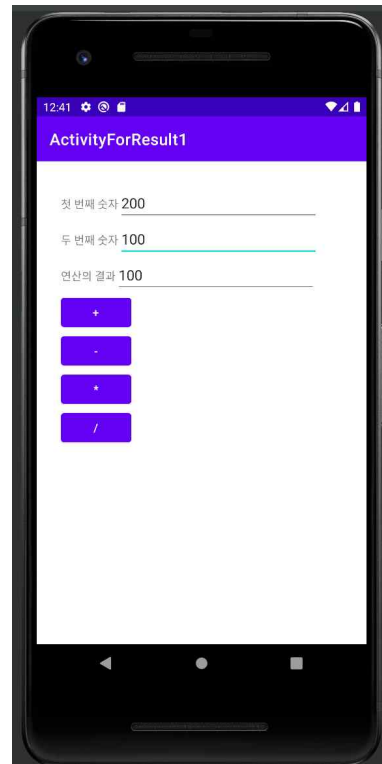


그림 빼기

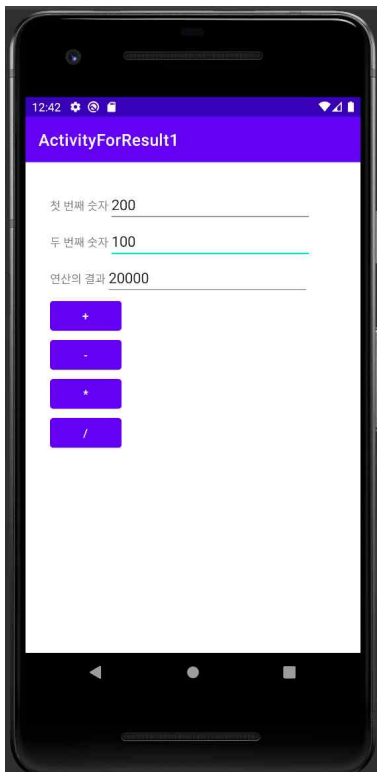


그림 곱하기

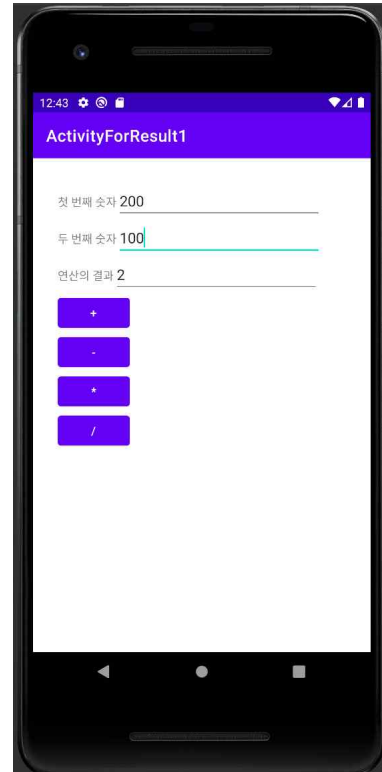


그림 나누기

<MainActivity.java>

```
1 package kr.ac.skuniv.ce;
2
3 import androidx.appcompat.app.AppCompatActivity;
4
5 import android.content.Intent;
6 import android.os.Bundle;
7 import android.view.View;
8 import android.widget.Button;
9 import android.widget.EditText;
10 import android.widget.TextView;
11
12 public class MainActivity extends AppCompatActivity {
13     static final int GET_RESULT = 1;
14     TextView text;
15     private EditText edit1, edit2, edit3;
16
17     @Override
18     protected void onCreate(Bundle savedInstanceState) {
19         super.onCreate(savedInstanceState);
20         setContentView(R.layout.activity_main);
21
22         Button button = (Button) findViewById(R.id.button);
23         Button button1 = (Button) findViewById(R.id.button1);
24         Button button2 = (Button) findViewById(R.id.button2);
25         Button button3 = (Button) findViewById(R.id.button3);
26
27         edit1 = (EditText) findViewById(R.id.edit1);
28         edit2 = (EditText) findViewById(R.id.edit2);
29         edit3 = (EditText) findViewById(R.id.edit3);
30         button.setOnClickListener(new View.OnClickListener() {
31             public void onClick(View arg0) {
32                 Intent in = new Intent( packageContext: MainActivity.this, SubActivity.class);
33                 in.putExtra( name: "number1", Integer.parseInt(edit1.getText().toString()));
34                 in.putExtra( name: "number2", Integer.parseInt(edit2.getText().toString()));
35                 startActivityForResult(in, GET_RESULT);
36             }
37         });
38         button1.setOnClickListener(new View.OnClickListener() {
39             public void onClick(View arg0) {
40                 Intent in = new Intent( packageContext: MainActivity.this, SubActivity1.class);
41                 in.putExtra( name: "number1", Integer.parseInt(edit1.getText().toString()));
42                 in.putExtra( name: "number2", Integer.parseInt(edit2.getText().toString()));
43                 startActivityForResult(in, GET_RESULT);
44             }
45         });
46         button2.setOnClickListener(new View.OnClickListener() {
47             public void onClick(View arg0) {
48                 Intent in = new Intent( packageContext: MainActivity.this, SubActivity2.class);
49                 in.putExtra( name: "number1", Integer.parseInt(edit1.getText().toString()));
50                 in.putExtra( name: "number2", Integer.parseInt(edit2.getText().toString()));
51                 startActivityForResult(in, GET_RESULT);
52             }
53         });
54         button3.setOnClickListener(new View.OnClickListener() {
55             public void onClick(View arg0) {
56                 Intent in = new Intent( packageContext: MainActivity.this, SubActivity3.class);
57                 in.putExtra( name: "number1", Integer.parseInt(edit1.getText().toString()));
58                 in.putExtra( name: "number2", Integer.parseInt(edit2.getText().toString()));
59                 startActivityForResult(in, GET_RESULT);
60             }
61         });
62     }
63
64     @Override
65     protected void onActivityResult(int requestCode, int resultCode, Intent data) {
66         super.onActivityResult(requestCode, resultCode, data);
67         if (requestCode == GET_RESULT) {
68             if (resultCode == RESULT_OK) {
69                 edit3.setText(" " + data.getIntExtra( name: "RESULT", defaultValue: 0));
70             }
71         }
72     }
73 }
```

```

package kr.ac.skuniv.ce;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.TextView;

public class MainActivity extends AppCompatActivity {
    static final int GET_RESULT = 1;
    TextView text;
    private EditText edit1, edit2, edit3;

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

        Button button = (Button) findViewById(R.id.button);
        Button button1 = (Button) findViewById(R.id.button1);
        Button button2 = (Button) findViewById(R.id.button2);
        Button button3 = (Button) findViewById(R.id.button3);

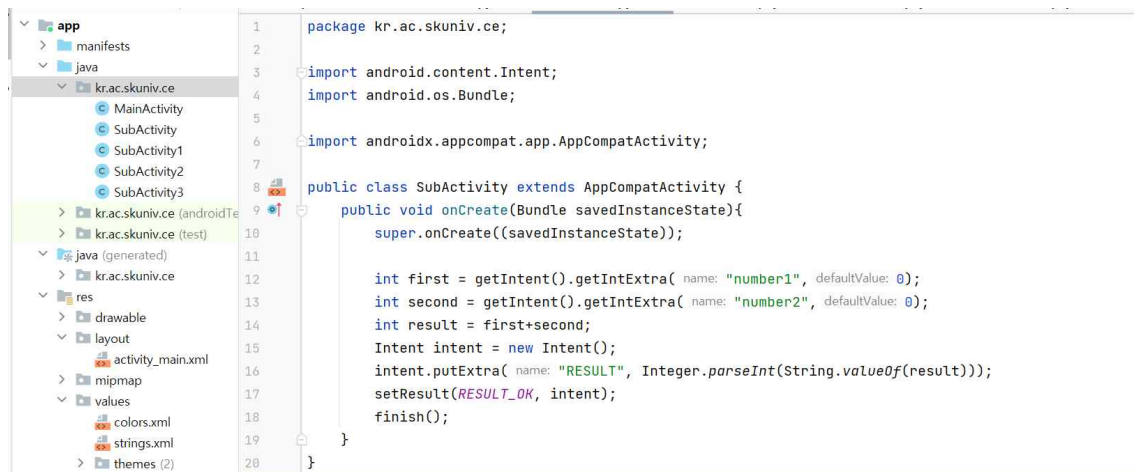
        edit1 = (EditText) findViewById(R.id.edit1);
        edit2 = (EditText) findViewById(R.id.edit2);
        edit3 = (EditText) findViewById(R.id.edit3);
        button.setOnClickListener(new View.OnClickListener() {
            public void onClick(View arg0) {
                Intent in = new Intent(MainActivity.this, SubActivity.class);
                in.putExtra("number1", Integer.parseInt(edit1.getText().toString()));
                in.putExtra("number2", Integer.parseInt(edit2.getText().toString()));
                startActivityForResult(in, GET_RESULT);
            }
        });
        button1.setOnClickListener(new View.OnClickListener() {
            public void onClick(View arg0) {
                Intent in = new Intent(MainActivity.this, SubActivity1.class);
                in.putExtra("number1", Integer.parseInt(edit1.getText().toString()));
                in.putExtra("number2", Integer.parseInt(edit2.getText().toString()));
                startActivityForResult(in, GET_RESULT);
            }
        });
        button2.setOnClickListener(new View.OnClickListener() {
            public void onClick(View arg0) {
                Intent in = new Intent(MainActivity.this, SubActivity2.class);
                in.putExtra("number1", Integer.parseInt(edit1.getText().toString()));
                in.putExtra("number2", Integer.parseInt(edit2.getText().toString()));
                startActivityForResult(in, GET_RESULT);
            }
        });
        button3.setOnClickListener(new View.OnClickListener() {
            public void onClick(View arg0) {
                Intent in = new Intent(MainActivity.this, SubActivity3.class);
                in.putExtra("number1", Integer.parseInt(edit1.getText().toString()));
                in.putExtra("number2", Integer.parseInt(edit2.getText().toString()));
                startActivityForResult(in, GET_RESULT);
            }
        });
    }
}

```

@Override

```
protected void onActivityResult(int requestCode, int resultCode, Intent data) {  
    super.onActivityResult(requestCode, resultCode, data);  
    if (requestCode == GET_RESULT) {  
        if (resultCode == RESULT_OK) {  
            edit3.setText("" + data.getIntExtra("RESULT", 0));  
        }  
    }  
}
```

<SubActivity.java>



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

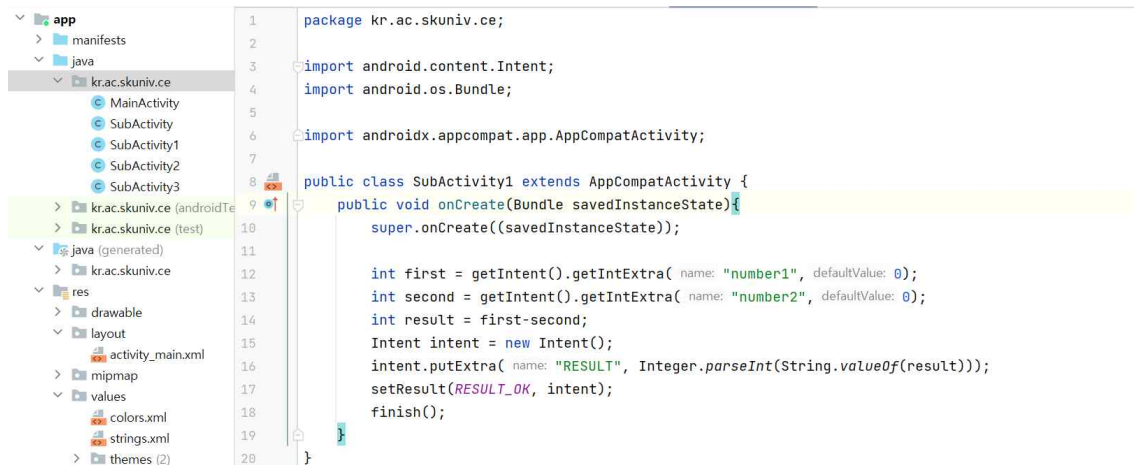
```
import android.content.Intent;  
import android.os.Bundle;
```

```
import androidx.appcompat.app.AppCompatActivity;
```

```
public class SubActivity extends AppCompatActivity {  
    public void onCreate(Bundle savedInstanceState){  
        super.onCreate(savedInstanceState);
```

```
        int first = getIntent().getIntExtra("number1",0);  
        int second = getIntent().getIntExtra("number2",0);  
        int result = first+second;  
        Intent intent = new Intent();  
        intent.putExtra("RESULT", Integer.parseInt(String.valueOf(result)));  
        setResult(RESULT_OK, intent);  
        finish();  
    }  
}
```

<SubActivity1.java>



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

```
import android.content.Intent;
import android.os.Bundle;
```

```
import androidx.appcompat.app.AppCompatActivity;
```

```
public class SubActivity1 extends AppCompatActivity {
    public void onCreate(Bundle savedInstanceState){
        super.onCreate(savedInstanceState);
```

```
        int first = getIntent().getIntExtra("number1",0);
        int second = getIntent().getIntExtra("number2",0);
        int result = first-second;
        Intent intent = new Intent();
        intent.putExtra("RESULT", Integer.parseInt(String.valueOf(result)));
        setResult(RESULT_OK, intent);
        finish();
    }
}
```

<SubActivity2.java>



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

```

import android.content.Intent;
import android.os.Bundle;

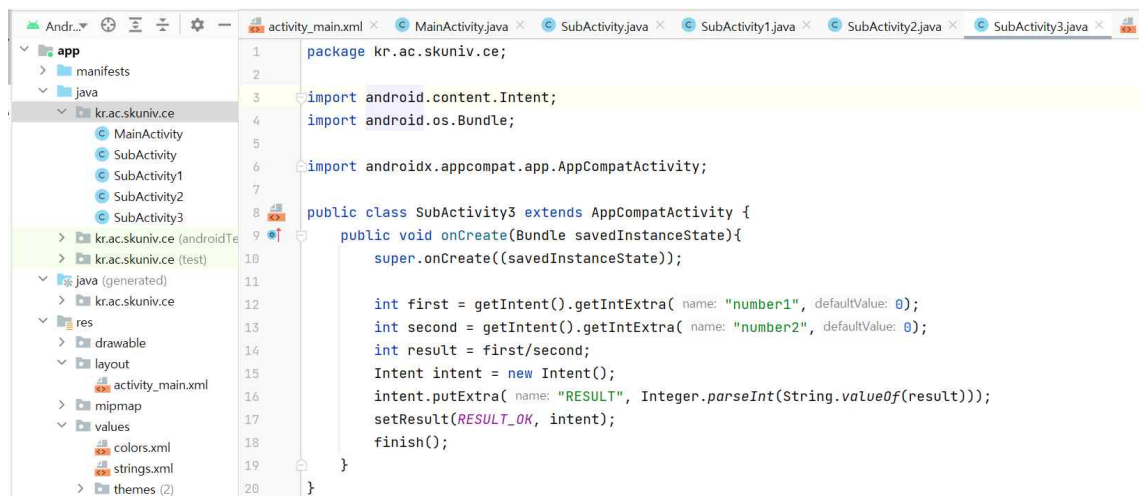
import androidx.appcompat.app.AppCompatActivity;

public class SubActivity2 extends AppCompatActivity {
    public void onCreate(Bundle savedInstanceState){
        super.onCreate(savedInstanceState);

        int first = getIntent().getIntExtra("number1",0);
        int second = getIntent().getIntExtra("number2",0);
        int result = first*second;
        Intent intent = new Intent();
        intent.putExtra("RESULT", Integer.parseInt(String.valueOf(result)));
        setResult(RESULT_OK, intent);
        finish();
    }
}

```

<SubActivity3.java>



```

package kr.ac.skuniv.ce;

import android.content.Intent;
import android.os.Bundle;

import androidx.appcompat.app.AppCompatActivity;

public class SubActivity3 extends AppCompatActivity {
    public void onCreate(Bundle savedInstanceState){
        super.onCreate(savedInstanceState);

        int first = getIntent().getIntExtra("number1",0);
        int second = getIntent().getIntExtra("number2",0);
        int result = first/second;
        Intent intent = new Intent();
        intent.putExtra("RESULT", Integer.parseInt(String.valueOf(result)));
        setResult(RESULT_OK, intent);
        finish();
    }
}

```


<string.xml>



<activity_main.xml>

```
1 <?xml version="1.0" encoding="utf-8"?>
2 <LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
3     android:layout_width="match_parent"
4     android:layout_height="match_parent"
5     android:layout_margin="30dp"
6     android:orientation="vertical">
7     <LinearLayout
8         android:layout_width="wrap_content"
9         android:layout_height="wrap_content"
10        android:orientation="horizontal">
11        <TextView
12            android:layout_height="wrap_content"
13            android:layout_width="wrap_content"
14            android:id="@+id/textView"
15            android:text="첫 번째 숫자" />
16        <EditText
17            android:layout_height="wrap_content"
18            android:layout_width="250dp"
19            android:id="@+id/edit1" />
20    </LinearLayout>
21    <LinearLayout
22        android:layout_width="wrap_content"
23        android:layout_height="wrap_content"
24        android:orientation="horizontal">
25        <TextView
26            android:layout_height="wrap_content"
27            android:layout_width="wrap_content"
28            android:id="@+id/textView2"
29            android:text="두 번째 숫자" />
30        <EditText
31            android:layout_width="250dp"
32            android:layout_height="wrap_content"
33            android:id="@+id/edit2" />
34    </LinearLayout>
35    <LinearLayout
36        android:layout_width="wrap_content"
37        android:layout_height="wrap_content"
38        android:orientation="horizontal">
39        <TextView
40            android:layout_height="wrap_content"
41            android:layout_width="wrap_content"
42            android:id="@+id/textView3"
43            android:text="연산의 결과" />
44        <EditText
45            android:layout_width="250dp"
46            android:layout_height="wrap_content"
47            android:id="@+id/edit3" />
48    </LinearLayout>
49    <Button
50        android:layout_width="wrap_content"
51        android:layout_height="wrap_content"
52        android:onClick="onClick"
53        android:id="@+id/button"
54        android:text="+"/>
55    <Button
56        android:layout_width="wrap_content"
57        android:layout_height="wrap_content"
58        android:onClick="onClick"
59        android:id="@+id/button1"
60        android:text="-"/>
61    <Button
62        android:layout_width="wrap_content"
63        android:layout_height="wrap_content"
64        android:onClick="onClick"
65        android:id="@+id/button2"
66        android:text="*/>
67    <Button
68        android:layout_width="wrap_content"
```



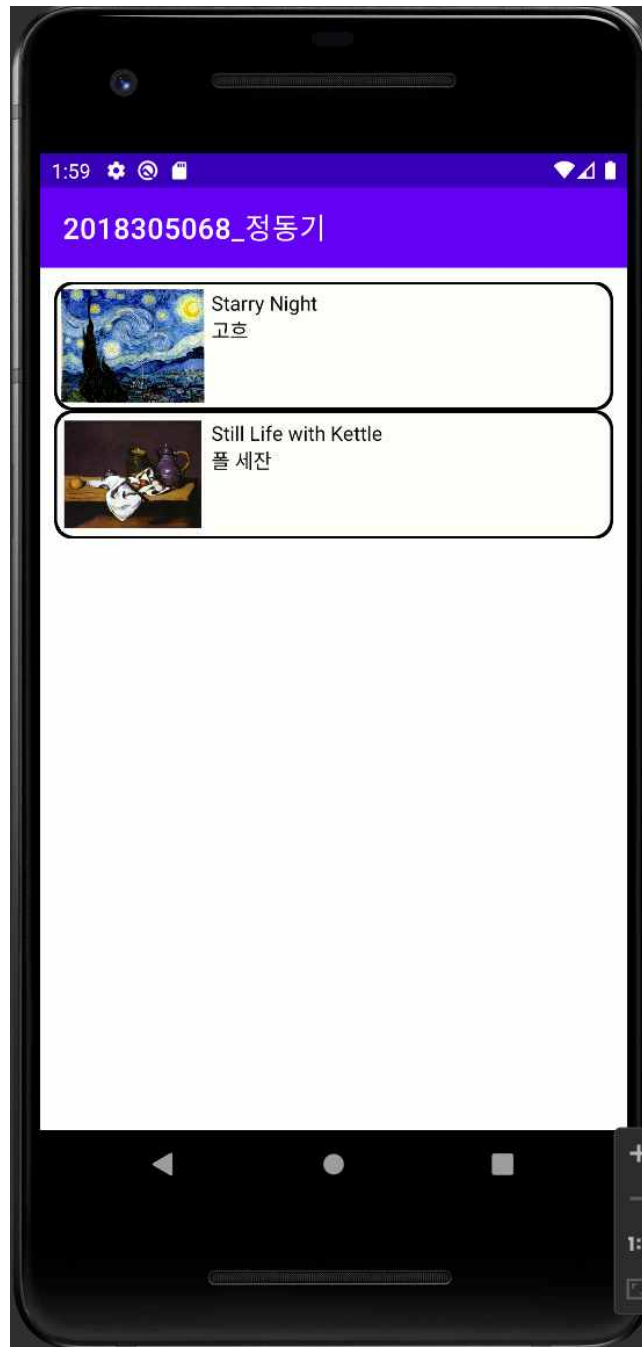
```
<?xml version="1.0" encoding="utf-8"?>  
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"  
    android:layout_width="match_parent"  
    android:layout_height="match_parent"  
    android:layout_margin="30dp"  
    android:orientation="vertical">  
    <LinearLayout  
        android:layout_width="wrap_content"  
        android:layout_height="wrap_content"  
        android:orientation="horizontal">  
        <TextView  
            android:layout_height="wrap_content"  
            android:layout_width="wrap_content"  
            android:id="@+id/textView"  
            android:text="첫 번째 숫자" />  
        <EditText  
            android:layout_height="wrap_content"  
            android:layout_width="250dp"  
            android:id="@+id/edit1" />  
        </LinearLayout>  
        <LinearLayout  
            android:layout_width="wrap_content"  
            android:layout_height="wrap_content"  
            android:orientation="horizontal">  
            <TextView  
                android:layout_height="wrap_content"  
                android:layout_width="wrap_content"  
                android:id="@+id/textView2"  
                android:text="두 번째 숫자" />  
            <EditText  
                android:layout_width="250dp"  
                android:layout_height="wrap_content"  
                android:id="@+id/edit2" />  
            </LinearLayout>  
            <LinearLayout  
                android:layout_width="wrap_content"  
                android:layout_height="wrap_content"  
                android:orientation="horizontal">  
                <TextView  
                    android:layout_height="wrap_content"  
                    android:layout_width="wrap_content"  
                    android:id="@+id/textView3"  
                    android:text="연산의 결과" />  
                <EditText  
                    android:layout_width="250dp"  
                    android:layout_height="wrap_content"  
                    android:id="@+id/edit3" />  
                </LinearLayout>  
                <Button  
                    android:layout_width="wrap_content"  
                    android:layout_height="wrap_content"  
                    android:onClick="onClick"  
                    android:id="@+id/button"  
                    android:text="+"/>  
                <Button  
                    android:layout_width="wrap_content"  
                    android:layout_height="wrap_content"  
                    android:onClick="onClick"
```

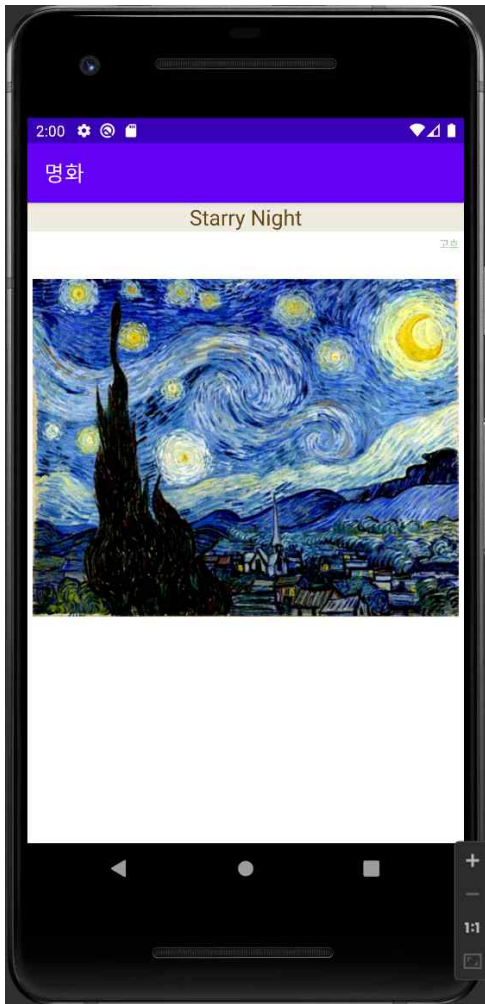
```
        android:id="@+id/button1"
        android:text="-"/>
        <Button
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:onClick="onClick"
        android:id="@+id/button2"
        android:text="*/>
        <Button
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:onClick="onClick"
        android:id="@+id/button3"
        android:text="/"/>

    </LinearLayout>
```

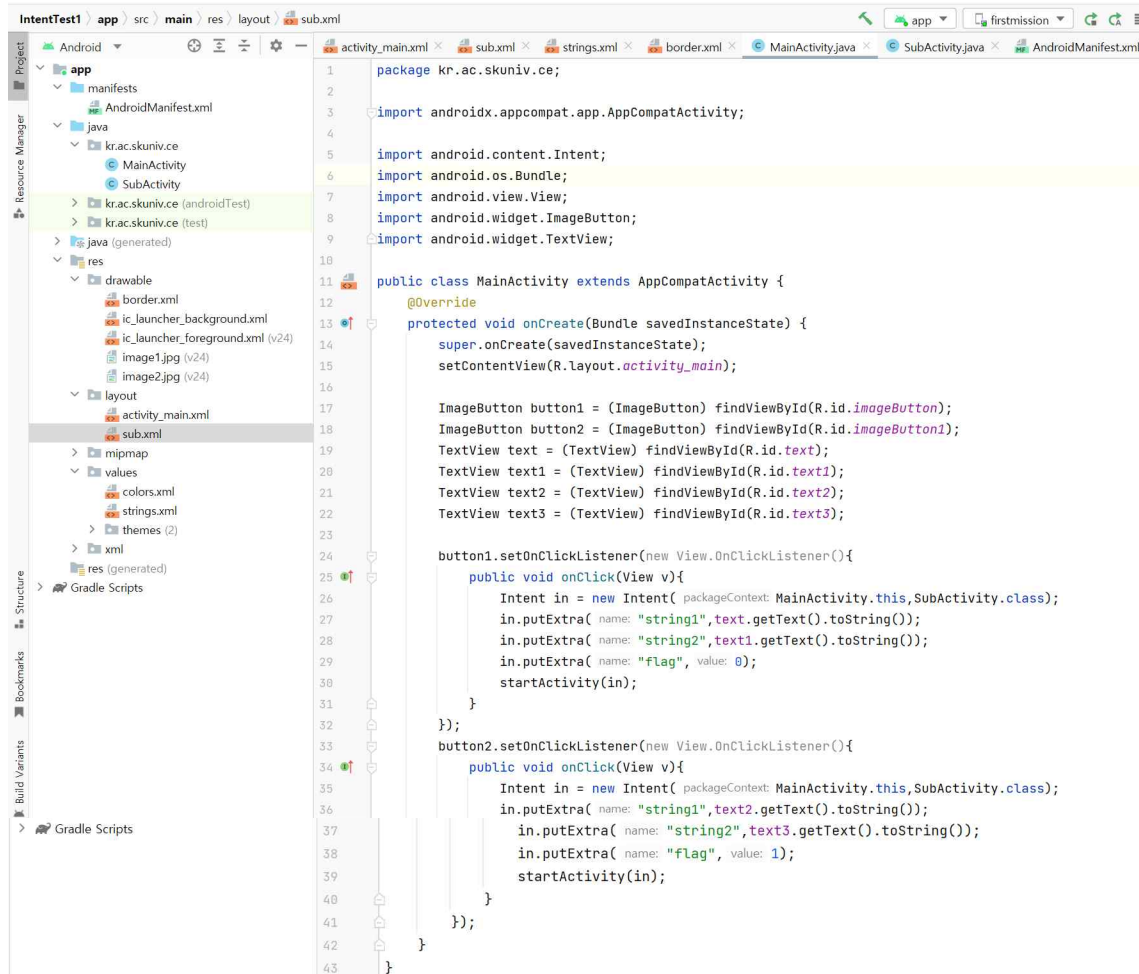
2. 아래와 같이 두 개의 Activity를 만들어 초기화면(Activity1)에 두 개의 그림과 제목, 작가를 배치한다. 그림을 클릭하면 선택한 그림이 선택 화면(Activity2)에 확대되어 나타나고 제목과 작가의 정보도 출력되는 프로젝트를 작성하시오(그림은 제한이 없음).

<실행화면>





<MainActivity.java>



package kr.ac.skuniv.ce;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;

import android.os.Bundle;

import android.view.View;

import android.widget.ImageButton;

import android.widget.TextView;

public class MainActivity extends AppCompatActivity {

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity_main);

ImageButton button1 = (ImageButton) findViewById(R.id.imageButton);

ImageButton button2 = (ImageButton) findViewById(R.id.imageButton1);

TextView text = (TextView) findViewById(R.id.text);

TextView text1 = (TextView) findViewById(R.id.text1);

TextView text2 = (TextView) findViewById(R.id.text2);

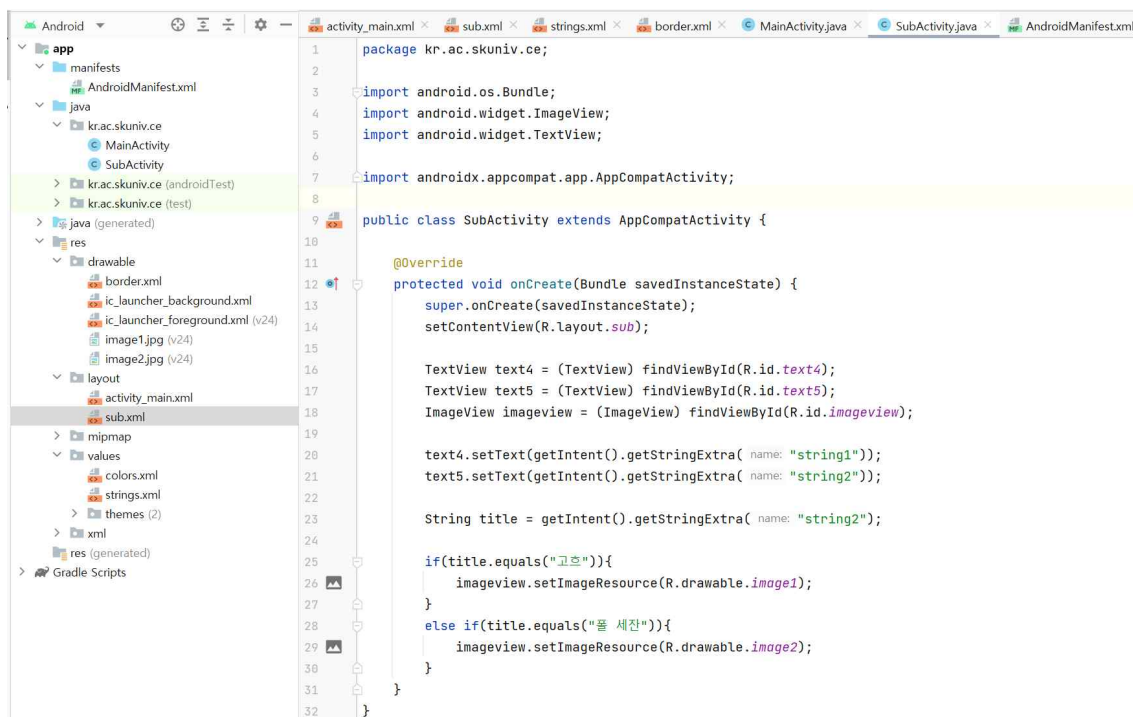
TextView text3 = (TextView) findViewById(R.id.text3);

```

button1.setOnClickListener(new View.OnClickListener(){
public void onClick(View v){
Intent in = new Intent(MainActivity.this,SubActivity.class);
in.putExtra("string1",text.getText().toString());
in.putExtra("string2",text1.getText().toString());
in.putExtra("flag",0);
startActivity(in);
}
});
button2.setOnClickListener(new View.OnClickListener(){
public void onClick(View v){
Intent in = new Intent(MainActivity.this,SubActivity.class);
in.putExtra("string1",text2.getText().toString());
in.putExtra("string2",text3.getText().toString());
in.putExtra("flag",1);
startActivity(in);
}
});
}
}
}

```

<SubActivity.java>



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

```
import android.os.Bundle;
import android.widget.ImageView;
import android.widget.TextView;
```

```
import androidx.appcompat.app.AppCompatActivity;
```

```
public class SubActivity extends AppCompatActivity {
```

```
@Override
```

```
protected void onCreate(Bundle savedInstanceState) {
super.onCreate(savedInstanceState);
setContentView(R.layout.sub);
}
```



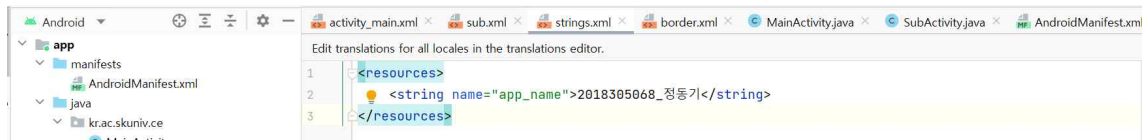
```
TextView text4 = (TextView) findViewById(R.id.text4);
TextView text5 = (TextView) findViewById(R.id.text5);
ImageView imageview = (ImageView) findViewById(R.id.imageview);

text4.setText(getIntent().getStringExtra("string1"));
text5.setText(getIntent().getStringExtra("string2"));

String title = getIntent().getStringExtra("string2");

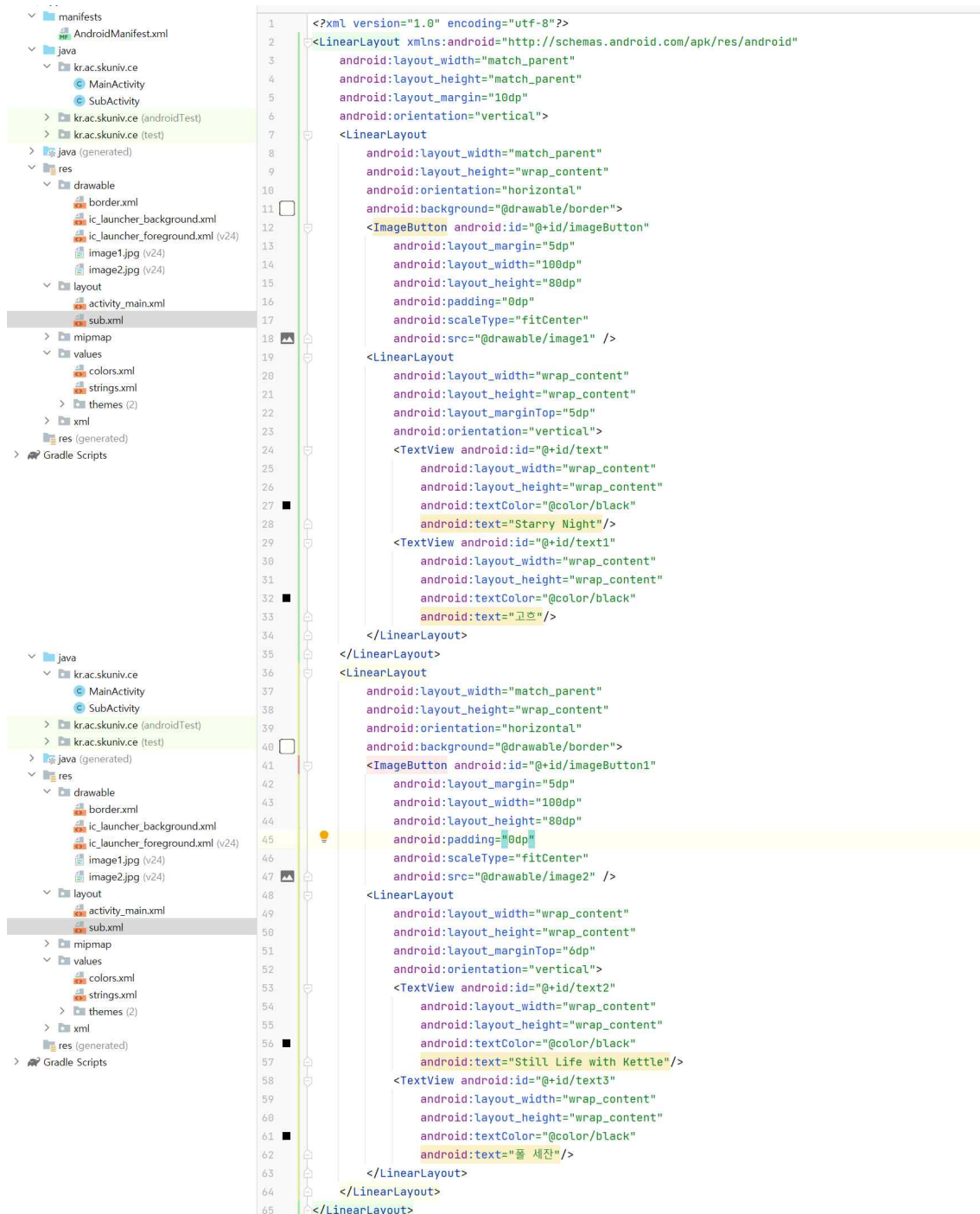
if(title.equals("고 호")){
    imageview.setImageResource(R.drawable.image1);
}
else if(title.equals("폴 세잔")){
    imageview.setImageResource(R.drawable.image2);
}
}
```

<string.xml>



```
<resources>  
<string name="app_name">2018305068_정동기</string>  
</resources>
```

<activity_main.xml>



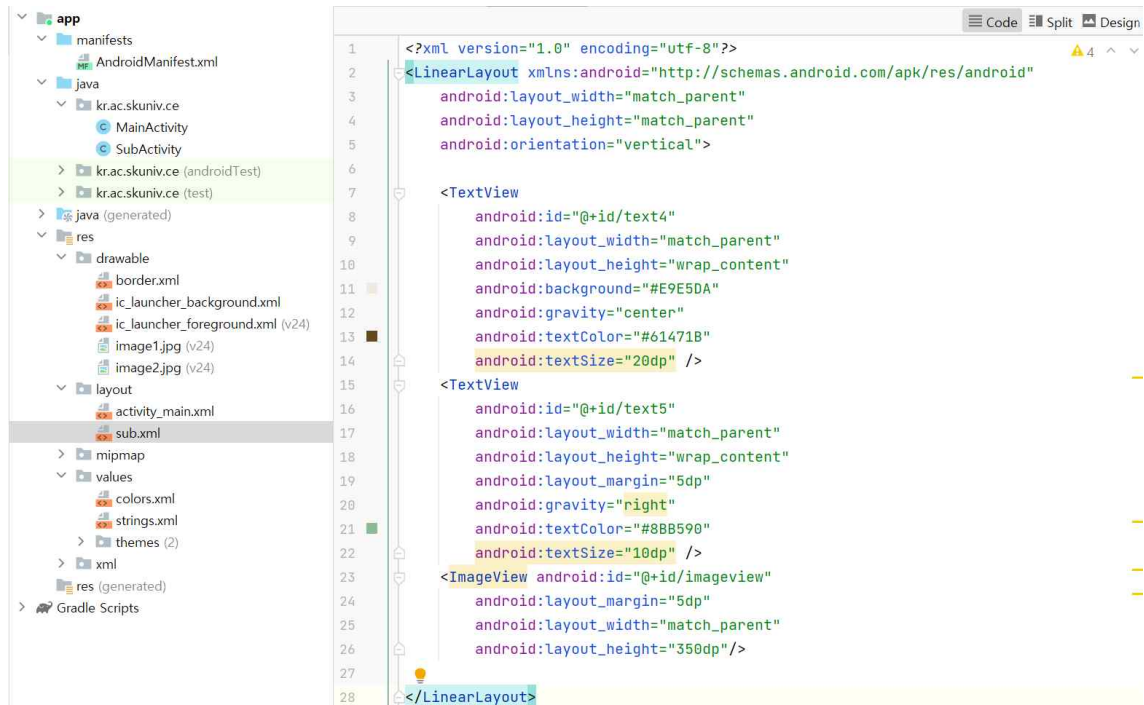
```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:layout_margin="10dp"
    android:orientation="vertical">
    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="horizontal"
        android:background="@drawable/border">
```

```

<ImageButton android:id="@+id/imageButton"
android:layout_margin="5dp"
android:layout_width="100dp"
android:layout_height="80dp"
android:padding="0dp"
android:scaleType="fitCenter"
android:src="@drawable/image1" />
<LinearLayout
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginTop="5dp"
android:orientation="vertical">
<TextView android:id="@+id/text"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:textColor="@color/black"
android:text="Starry Night"/>
<TextView android:id="@+id/text1"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:textColor="@color/black"
android:text="고흐"/>
</LinearLayout>
</LinearLayout>
<LinearLayout
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:orientation="horizontal"
android:background="@drawable/border">
<ImageButton android:id="@+id/imageButton1"
android:layout_margin="5dp"
android:layout_width="100dp"
android:layout_height="80dp"
android:padding="0dp"
android:scaleType="fitCenter"
android:src="@drawable/image2" />
<LinearLayout
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginTop="6dp"
android:orientation="vertical">
<TextView android:id="@+id/text2"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:textColor="@color/black"
android:text="Still Life with Kettle"/>
<TextView android:id="@+id/text3"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:textColor="@color/black"
android:text="폴 세잔"/>
</LinearLayout>
</LinearLayout>
</LinearLayout>

```

<sub.xml>

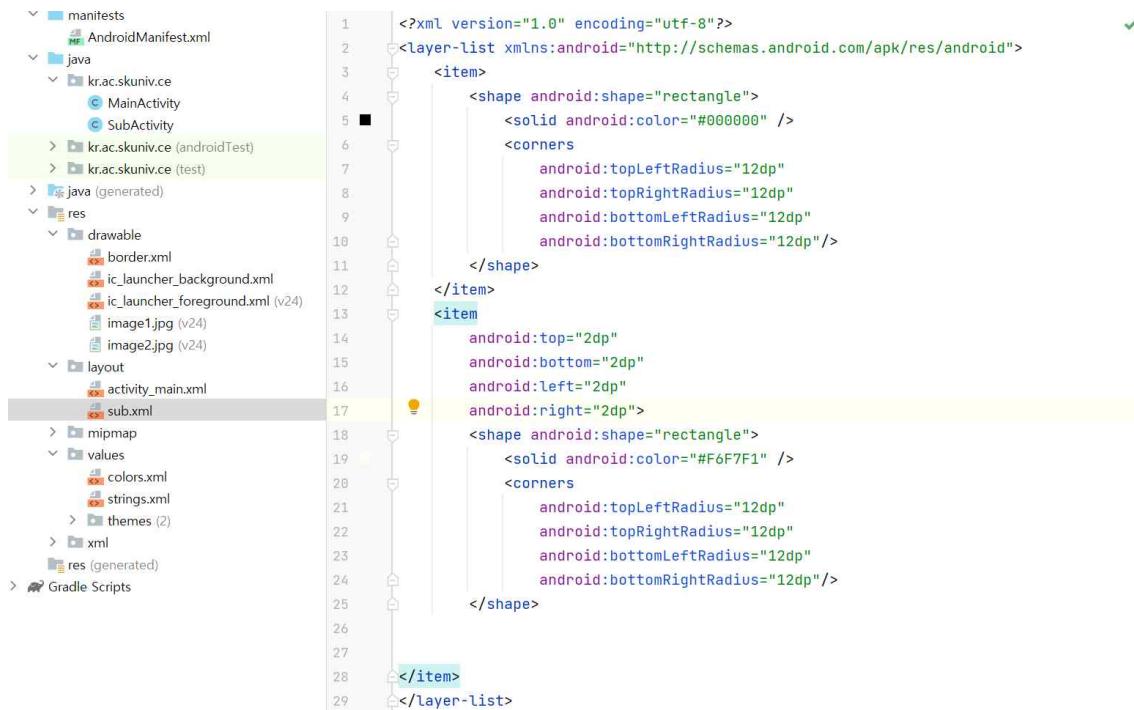


```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical">
```

```
<TextView
    android:id="@+id/text4"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:background="#E9E5DA"
    android:gravity="center"
    android:textColor="#61471B"
    android:textSize="20dp" />
<TextView
    android:id="@+id/text5"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_margin="5dp"
    android:gravity="right"
    android:textColor="#8BB590"
    android:textSize="10dp" />
<ImageView android:id="@+id/imageview"
    android:layout_margin="5dp"
    android:layout_width="match_parent"
    android:layout_height="350dp"/>
```

```
</LinearLayout>
```

<border.xml>



```
<?xml version="1.0" encoding="utf-8"?>
<layer-list xmlns:android="http://schemas.android.com/apk/res/android">
<item>
<shape android:shape="rectangle">
<solid android:color="#000000" />
<corners
android:topLeftRadius="12dp"
android:topRightRadius="12dp"
android:bottomLeftRadius="12dp"
android:bottomRightRadius="12dp"/>
</shape>
</item>
<item
android:top="2dp"
android:bottom="2dp"
android:left="2dp"
android:right="2dp">
<shape android:shape="rectangle">
<solid android:color="#F6F7F1" />
<corners
android:topLeftRadius="12dp"
android:topRightRadius="12dp"
android:bottomLeftRadius="12dp"
android:bottomRightRadius="12dp"/>
</shape>

</item>
</layer-list>
```

3. EditText와 RadioButton, Button을 이용해 <그림 1>과 같은 Activity1을 작성하고 숫자를 입력한 후 연산을 선택하고 [계산하기] 버튼을 누르면 <그림 2>와 같은 Activity2가 나타난다. <그림 2>에서 [돌아가기] 버튼을 누르면 <그림 3>과 같이 Activity1으로 돌아가며 연산의 결과가 Toast로 출력되는 프로젝트를 작성하시오.

Hint : Activity1에서 입력한 값은 Activity2로 전달되며 여기서 연산이 이루어진 후 그 결과를 반환해 Toast로 출력

<실행화면>



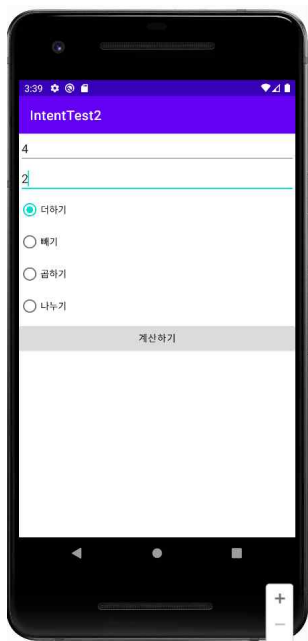


그림 더하기

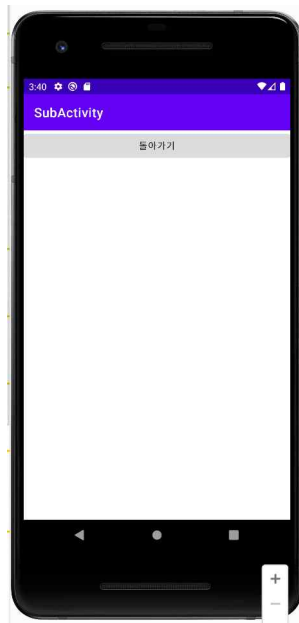


그림 계산하기

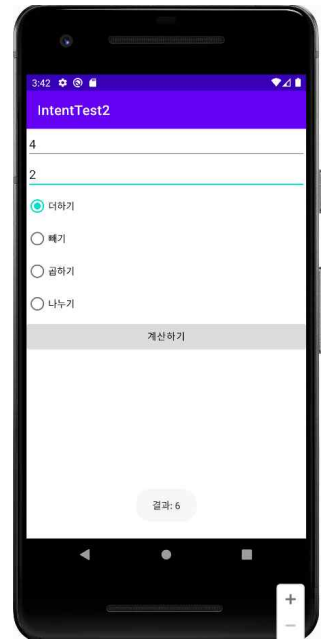


그림 결과

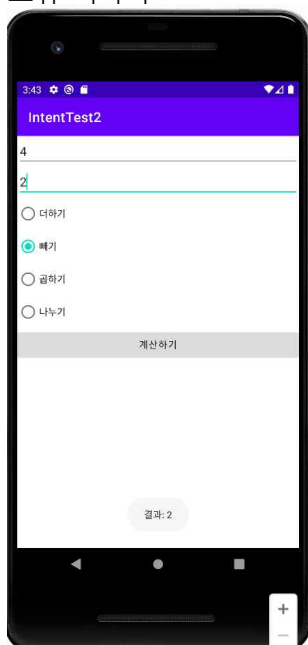


그림 빼기

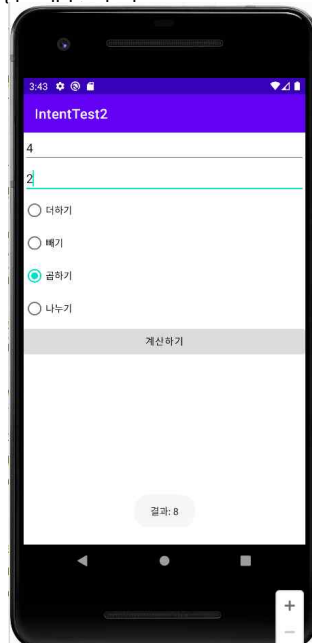


그림 곱하기

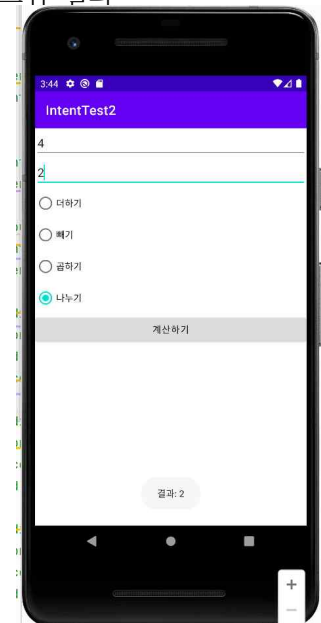


그림 나누기

<MainActivity.java>



```
1 package kr.ac.skuniv.ce;
2
3 import androidx.appcompat.app.AppCompatActivity;
4
5 import android.content.Intent;
6 import android.os.Bundle;
7 import android.view.View;
8 import android.widget.Button;
9 import android.widget.EditText;
10 import android.widget.RadioButton;
11 import android.widget.Toast;
12
13 public class MainActivity extends AppCompatActivity {
14     private EditText edit1, edit2;
15     public char chr;
16     static final int GET_RESULT = 1;
17     @Override
18     public void radioClicked(View view){
19         boolean radiobutton = ((RadioButton) view).isChecked();
20         switch (view.getId()){
21             case R.id.radiobutton1:
22                 chr = '+';
23                 break;
24             case R.id.radiobutton2:
25                 chr = '-';
26                 break;
27             case R.id.radiobutton3:
28                 chr = '*';
29                 break;
30             case R.id.radiobutton4:
31                 chr = '/';
32                 break;
33         }
34     }
35
36     @Override
37     protected void onCreate(Bundle savedInstanceState) {
38         super.onCreate(savedInstanceState);
39         setContentView(R.layout.activity_main);
40
41         Button button = (Button) findViewById(R.id.button);
42
43         edit1 = (EditText) findViewById(R.id.edit1);
44         edit2 = (EditText) findViewById(R.id.edit2);
45         button.setOnClickListener(new View.OnClickListener() {
46             public void onClick(View arg0) {
47                 Intent in = new Intent( packageContext: MainActivity.this, SubActivity.class);
48                 in.putExtra( name: "number1", Integer.parseInt(edit1.getText().toString()));
49                 in.putExtra( name: "number2", Integer.parseInt(edit2.getText().toString()));
50                 in.putExtra( name: "char1",chr);
51                 startActivityForResult(in,GET_RESULT);
52             }
53         });
54     }
55
56     @Override
57     protected void onActivityResult(int requestCode, int resultCode, Intent data) {
58         super.onActivityResult(requestCode, resultCode, data);
59         if (requestCode == GET_RESULT) {
60             if (resultCode == RESULT_OK) {
61                 Toast.makeText(this.getApplicationContext(),
62                     text: "결과: "+data.getIntExtra( name: "RESULT", defaultValue: 0),
63                     Toast.LENGTH_SHORT).show();
64             }
65         }
66     }
67 }
```

package kr.ac.skuniv.ce;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;

import android.os.Bundle;

import android.view.View;

```

import android.widget.Button;
import android.widget.EditText;
import android.widget.RadioButton;
import android.widget.Toast;

public class MainActivity extends AppCompatActivity {
    private EditText edit1, edit2;
    public char chr;
    static final int GET_RESULT = 1;
    public void radioClicked(View view){
        boolean radiobutton = ((RadioButton) view).isChecked();
        switch (view.getId()){
            case R.id.radiobutton1:
                chr = '+';
                break;
            case R.id.radiobutton2:
                chr = '-';
                break;
            case R.id.radiobutton3:
                chr = '*';
                break;
            case R.id.radiobutton4:
                chr = '/';
                break;
        }
    }

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

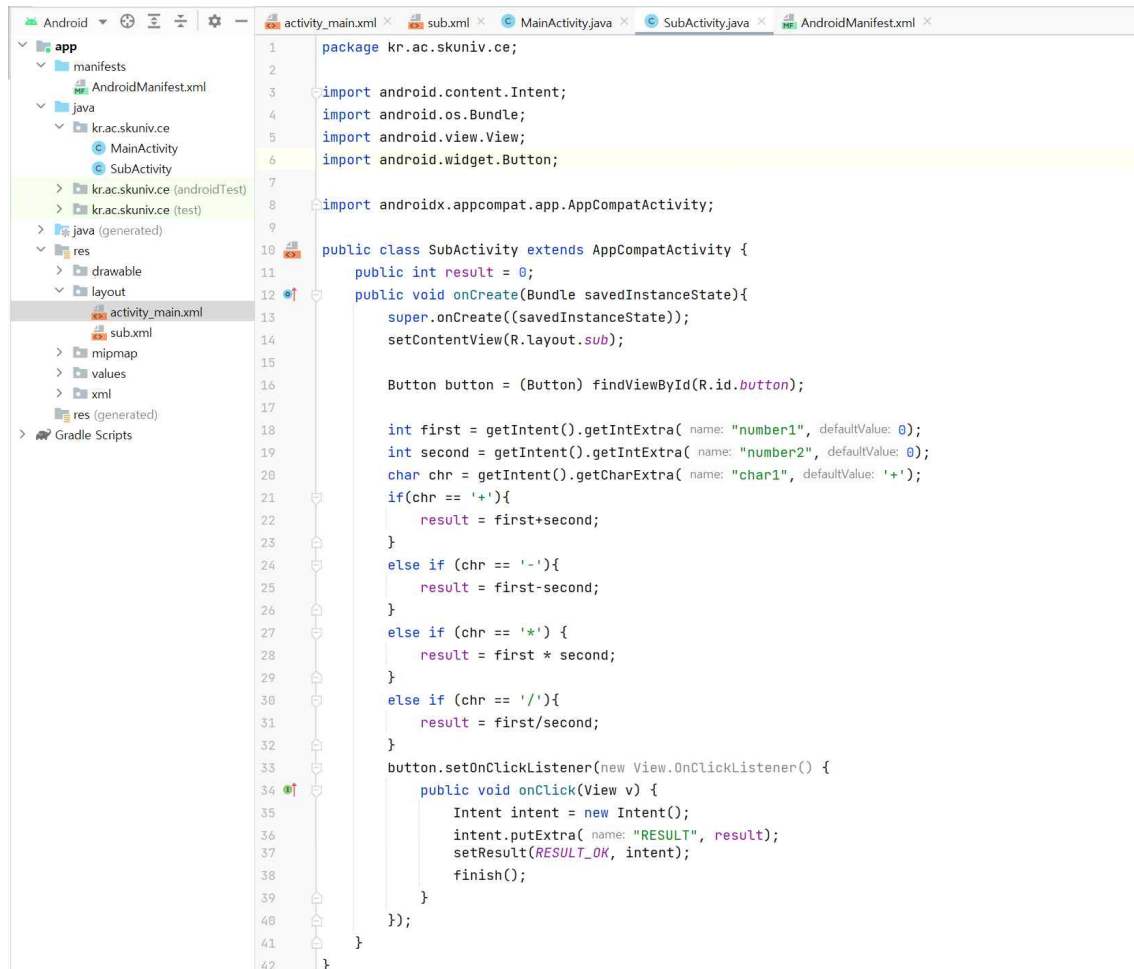
        Button button = (Button) findViewById(R.id.button);

        edit1 = (EditText) findViewById(R.id.edit1);
        edit2 = (EditText) findViewById(R.id.edit2);
        button.setOnClickListener(new View.OnClickListener(){
            public void onClick(View arg0){
                Intent in = new Intent(MainActivity.this, SubActivity.class);
                in.putExtra("number1", Integer.parseInt(edit1.getText().toString()));
                in.putExtra("number2", Integer.parseInt(edit2.getText().toString()));
                in.putExtra("char1",chr);
                startActivityForResult(in,GET_RESULT);
            }
        });
    }

    @Override
    protected void onActivityResult(int requestCode, int resultCode, Intent data) {
        super.onActivityResult(requestCode, resultCode, data);
        if (requestCode == GET_RESULT) {
            if (resultCode == RESULT_OK) {
                Toast.makeText(this,getApplicationContext(),
                    "결과: "+data.getIntExtra("RESULT",0),
                    Toast.LENGTH_SHORT).show();
            }
        }
    }
}

```

<SubActivity.java>



```
1 package kr.ac.skuniv.ce;
2
3 import android.content.Intent;
4 import android.os.Bundle;
5 import android.view.View;
6 import android.widget.Button;
7
8 import androidx.appcompat.app.AppCompatActivity;
9
10 public class SubActivity extends AppCompatActivity {
11     public int result = 0;
12     public void onCreate(Bundle savedInstanceState){
13         super.onCreate((savedInstanceState));
14         setContentView(R.layout.sub);
15
16         Button button = (Button) findViewById(R.id.button);
17
18         int first = getIntent().getIntExtra( name: "number1", defaultValue: 0);
19         int second = getIntent().getIntExtra( name: "number2", defaultValue: 0);
20         char chr = getIntent().getCharExtra( name: "char1", defaultValue: '+');
21         if(chr == '+'){
22             result = first+second;
23         }
24         else if (chr == '-'){
25             result = first-second;
26         }
27         else if (chr == '*') {
28             result = first * second;
29         }
30         else if (chr == '/'){
31             result = first/second;
32         }
33         button.setOnClickListener(new View.OnClickListener() {
34             public void onClick(View v) {
35                 Intent intent = new Intent();
36                 intent.putExtra( name: "RESULT", result);
37                 setResult(RESULT_OK, intent);
38                 finish();
39             }
40         });
41     }
42 }
```

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

```
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
```

```
import androidx.appcompat.app.AppCompatActivity;
```

```
public class SubActivity extends AppCompatActivity {
    public int result = 0;
    public void onCreate(Bundle savedInstanceState){
        super.onCreate((savedInstanceState));
        setContentView(R.layout.sub);
```

```
    Button button = (Button) findViewById(R.id.button);
```

```
    int first = getIntent().getIntExtra("number1",0);
    int second = getIntent().getIntExtra("number2",0);
    char chr = getIntent().getCharExtra("char1",'+');
    if(chr == '+'){
        result = first+second;
    }
    else if (chr == '-'){
        result = first-second;
    }
    else if (chr == '*') {
```

```

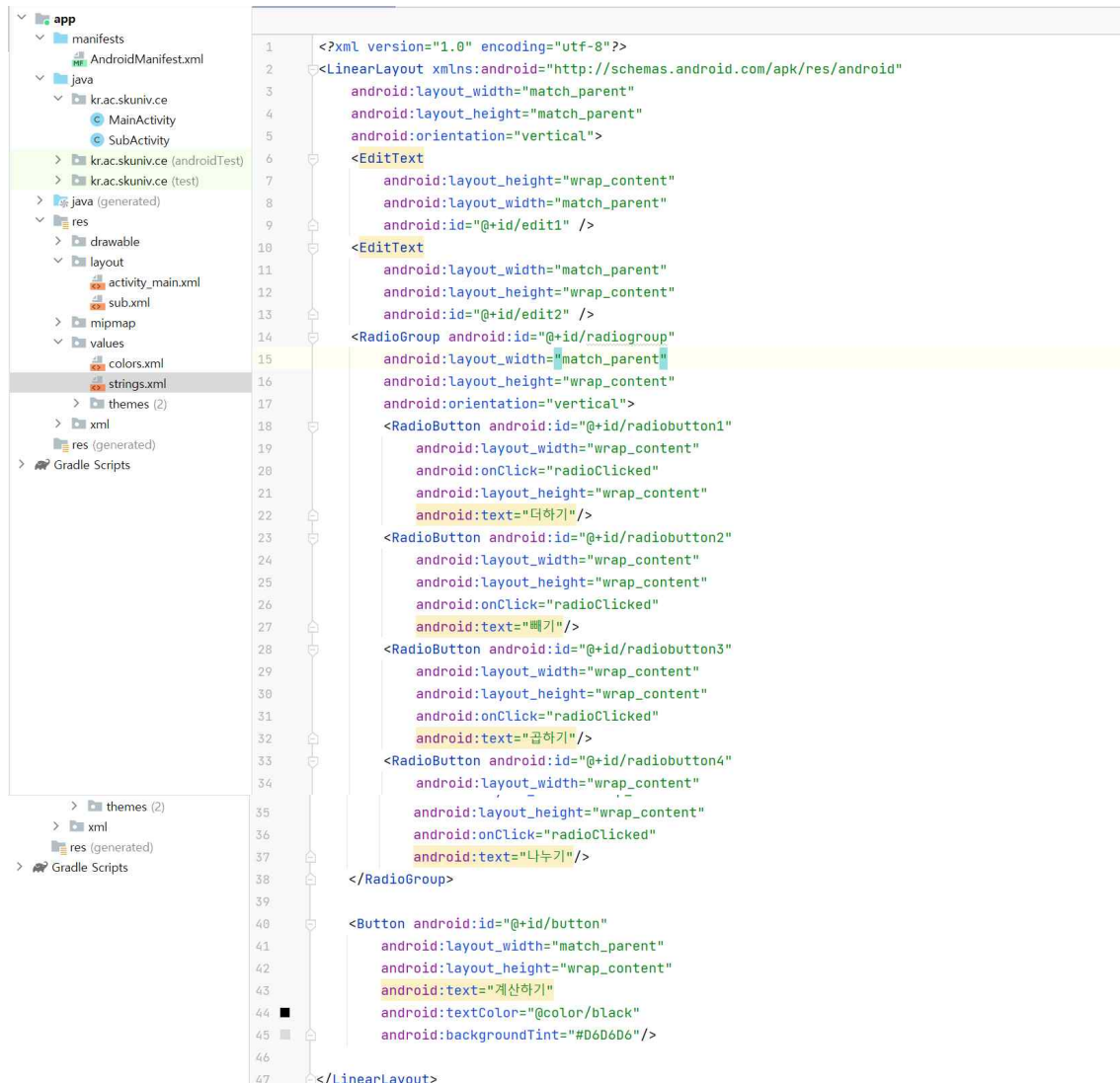
result = first * second;
}
else if (chr == '/') {
result = first/second;
}
button.setOnClickListener(new View.OnClickListener() {
public void onClick(View v) {
Intent intent = new Intent();
intent.putExtra("RESULT", result);
setResult(RESULT_OK, intent);
finish();
}
});
}
}
}

```

<string.xml>



<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">
    <EditText
        android:layout_height="wrap_content"
        android:layout_width="match_parent"
        android:id="@+id/edit1" />
    <EditText
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:id="@+id/edit2" />
    <RadioGroup android:id="@+id/radiogroup"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="vertical">
        <RadioButton android:id="@+id/radiobutton1"
            android:layout_width="wrap_content"
            android:onClick="radioClicked"
            android:layout_height="wrap_content"
            android:text="더하기"/>
```

```

<RadioButton android:id="@+id/radiobutton2"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:onClick="radioClicked"
android:text="빼기"/>
<RadioButton android:id="@+id/radiobutton3"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:onClick="radioClicked"
android:text="곱하기"/>
<RadioButton android:id="@+id/radiobutton4"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:onClick="radioClicked"
android:text="나누기"/>
</RadioGroup>

```

```

<Button android:id="@+id/button"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:text="계산하기"
android:textColor="@color/black"
android:backgroundTint="#D6D6D6"/>

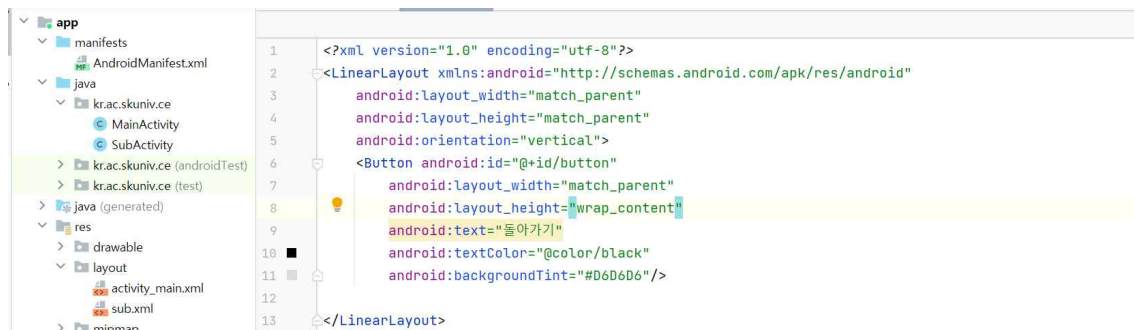
```

```

</LinearLayout>

```

<sub.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">
<Button android:id="@+id/button"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:text="돌아가기"
android:textColor="@color/black"
android:backgroundTint="#D6D6D6"/>

```

```

</LinearLayout>

```