

# 스마트폰 프로그래밍

## Assign #6

(제목 : IntentTest)

학번 : 2016305078

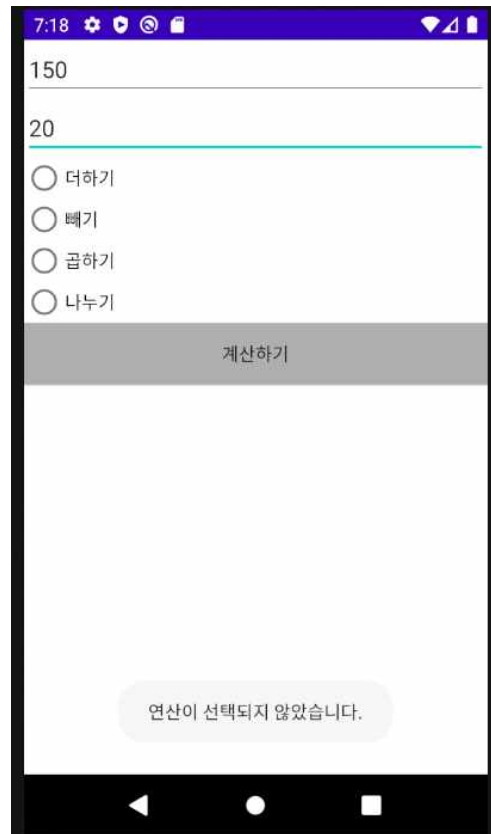
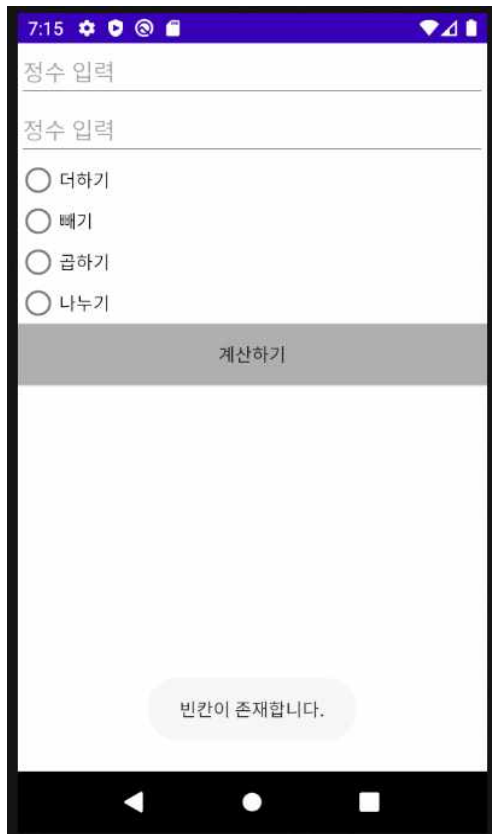
성명 : 최 영 환

제출일자 : 2021.10.13

본인은 타인이나 다른 매체를 도용하지 않았음을 확인합니다 <본인사인>

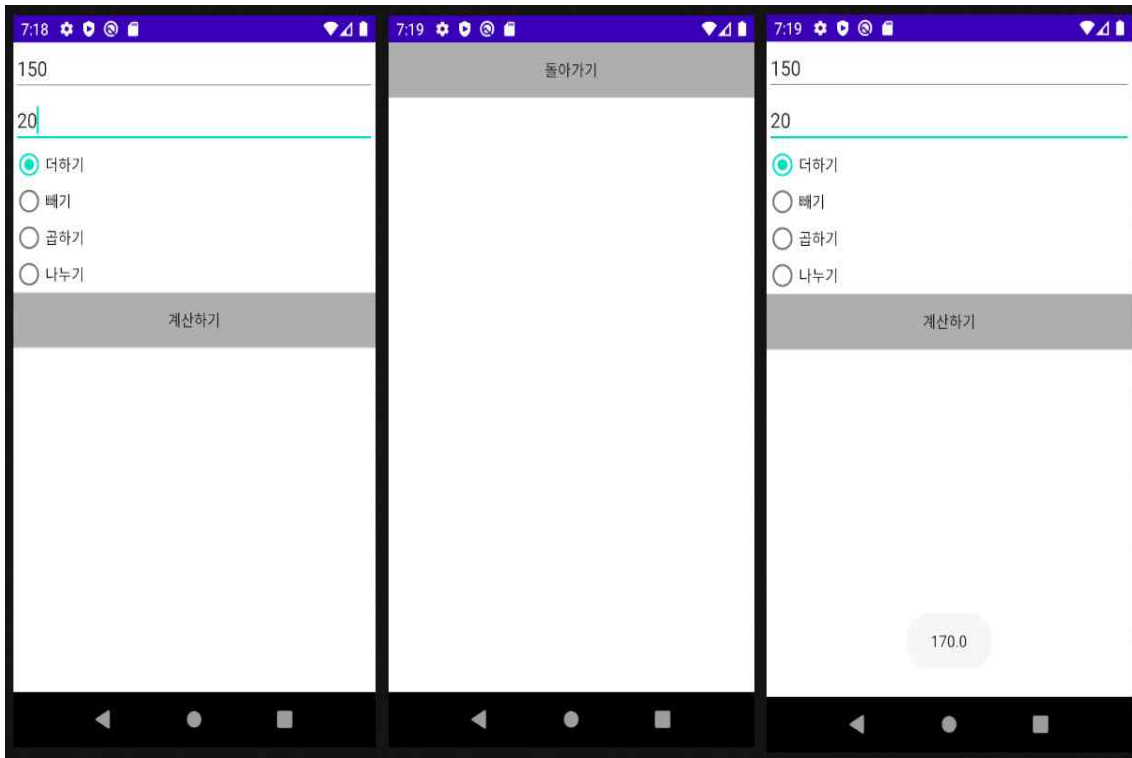
### <실행화면>

※ 숫자 미 입력 및 연산 미 선택 시

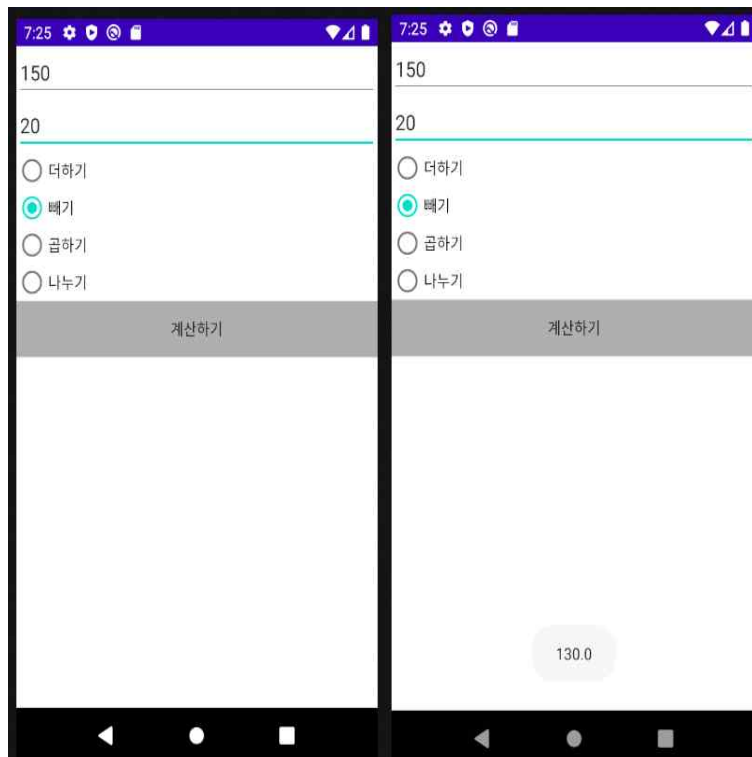


※ 다음 페이지부터 정상 결과이며, 돌아가기 버튼이 존재하는 액티비티는 문서가 너무 길어지는 관계로, 1회만 제시하였습니다.

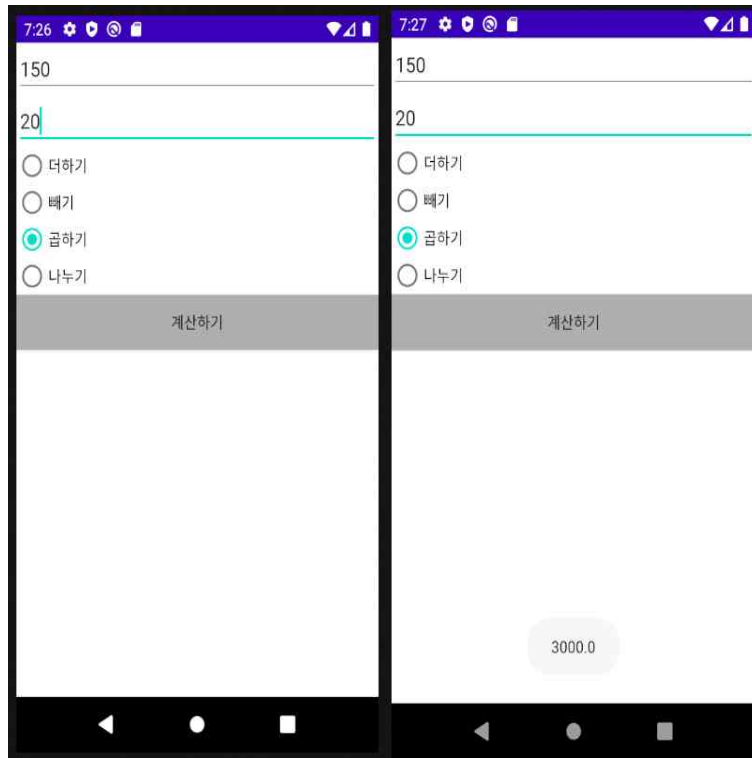
※ 정상 동작(덧셈)



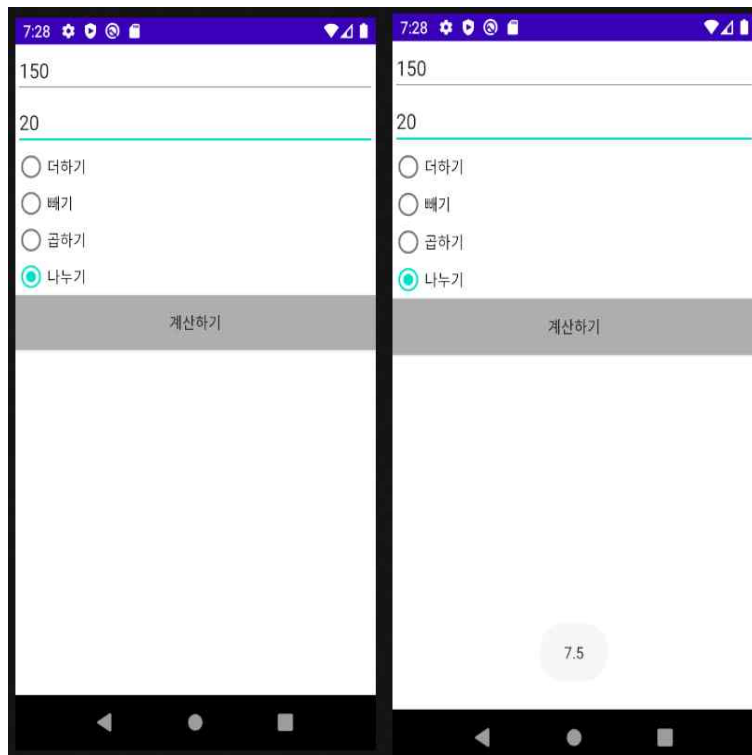
※ 정상 동작(뺄셈)



※ 정상 동작(곱셈)



※ 정상 동작(나눗셈)



## <MainActivity.java>

```
1 package com.example.intenttest;
2
3 import ...
4
5
6
7
8
9
10
11
12 public class MainActivity extends Activity {
13     static final int GET_RESULT = 1;
14
15
16     @Override
17     protected void onCreate(Bundle savedInstanceState) {
18         super.onCreate(savedInstanceState);
19         setContentView(R.layout.activity_main);
20
21         Button cal_button = (Button) findViewById(R.id.cal_button);
22         cal_button.setOnClickListener(new View.OnClickListener() {
23             @Override
24             public void onClick(View view) {
25                 EditText edit_num1 = (EditText) findViewById(R.id.edit_num1);
26                 EditText edit_num2 = (EditText) findViewById(R.id.edit_num2);
27                 RadioGroup radiogroup = (RadioGroup) findViewById(R.id.radio_group);
28
29                 String s_num1 = edit_num1.getText().toString();
30                 String s_num2 = edit_num2.getText().toString();
31
32                 if (s_num1.length() <= 0 || s_num2.length() <= 0) {
33                     Toast.makeText(getApplicationContext(), text: "빈칸이 존재합니다.",
34                         Toast.LENGTH_SHORT).show();
35                 }
36                 else if (radiogroup.getCheckedRadioButtonId() == -1) {
37                     Toast.makeText(getApplicationContext(), text: "연산이 선택되지 않았습니다.",
38                         Toast.LENGTH_SHORT).show();
39                 }
40                 else {
41                     Double num1 = Double.valueOf(s_num1);
42                     Double num2 = Double.valueOf(s_num2);
43
44                     Intent intent = new Intent( packageContext, MainActivity.this, CalcActivity.class);
45                     intent.putExtra( name: "NUM1", num1);
46                     intent.putExtra( name: "NUM2", num2);
47                     startActivityForResult(intent, GET_RESULT);
48                 }
49             }
50         });
51     }
52
53     @Override
54     protected void onActivityResult(int requestCode, int resultCode, Intent data) {
55         if (requestCode == GET_RESULT) {
56             if (resultCode == RESULT_OK) {
57                 double result = 0;
58                 RadioGroup radiogroup = (RadioGroup) findViewById(R.id.radio_group);
59
60                 switch(radiogroup.getCheckedRadioButtonId()){
61                     case R.id.add:
62                         result = data.getDoubleExtra( name: "ADD", defaultValue: 0);
63                         Toast.makeText(getApplicationContext(), String.valueOf(result),
64                             Toast.LENGTH_SHORT).show();
65                         break;
66                     case R.id.sub:
67                         result = data.getDoubleExtra( name: "SUB", defaultValue: 0);
68                         Toast.makeText(getApplicationContext(), String.valueOf(result),
69                             Toast.LENGTH_SHORT).show();
70                         break;
71                     case R.id.mul:
72                         result = data.getDoubleExtra( name: "MUL", defaultValue: 0);
73                         Toast.makeText(getApplicationContext(), String.valueOf(result),
74                             Toast.LENGTH_SHORT).show();
75                         break;
76                     case R.id.div:
77                         result = data.getDoubleExtra( name: "DIV", defaultValue: 0);
78                         Toast.makeText(getApplicationContext(), String.valueOf(result),
79                             Toast.LENGTH_SHORT).show();
80                         break;
81                     default:
82                         Toast.makeText(getApplicationContext(), text: "계산 실패!",
83                             Toast.LENGTH_SHORT).show();
84                         break;
85                 }
86             }
87         }
88     }
89 }
```

```

package com.example.intenttest;
import android.app.Activity;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.RadioGroup;
import android.widget.Toast;
public class MainActivity extends Activity {
    static final int GET_RESULT = 1;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        Button cal_button = (Button) findViewById(R.id.cal_button);
        cal_button.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                EditText edit_num1 = (EditText) findViewById(R.id.edit_num1);
                EditText edit_num2 = (EditText) findViewById(R.id.edit_num2);
                RadioGroup radiogroup = (RadioGroup) findViewById(R.id.radio_group);
                String s_num1 = edit_num1.getText().toString();
                String s_num2 = edit_num2.getText().toString();
                if (s_num1.length() <=0 || s_num2.length() <=0) {
                    Toast.makeText(getApplicationContext(), "빈칸이 존재합니다.",
                        Toast.LENGTH_SHORT).show();
                }
                else if (radiogroup.getCheckedRadioButtonId() == -1) {
                    Toast.makeText(getApplicationContext(), "연산이 선택되지 않았습니다.",
                        Toast.LENGTH_SHORT).show();
                }
                else {
                    Double num1 = Double.valueOf(s_num1);
                    Double num2 = Double.valueOf(s_num2);
                    Intent intent = new Intent(MainActivity.this, CalcActivity.class);
                    intent.putExtra("NUM1", num1);
                    intent.putExtra("NUM2", num2);
                    startActivityForResult(intent, 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) {
            double result =0;
            RadioGroup radiogroup = (RadioGroup) findViewById(R.id.radio_group);
            switch(radiogroup.getCheckedRadioButtonId()){
                case R.id.add:
                    result = data.getDoubleExtra("ADD", 0);
                    Toast.makeText(getApplicationContext(), String.valueOf(result),
                        Toast.LENGTH_SHORT).show();

                    break;
                case R.id.sub:
                    result = data.getDoubleExtra("SUB", 0);
                    Toast.makeText(getApplicationContext(), String.valueOf(result),
                        Toast.LENGTH_SHORT).show();

                    break;
                case R.id.mul:
                    result = data.getDoubleExtra("MUL", 0);
                    Toast.makeText(getApplicationContext(), String.valueOf(result),
                        Toast.LENGTH_SHORT).show();

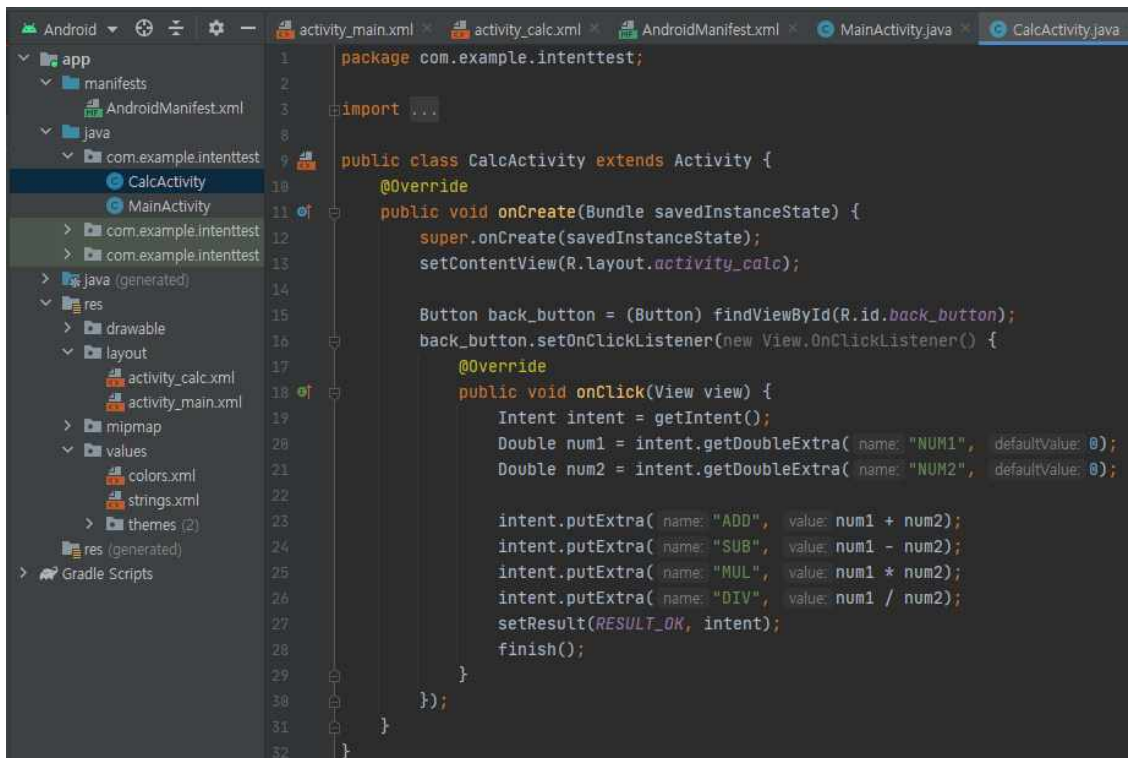
                    break;
                case R.id.div:
                    result = data.getDoubleExtra("DIV", 0);
                    Toast.makeText(getApplicationContext(), String.valueOf(result),
                        Toast.LENGTH_SHORT).show();

                    break;
                default:
                    Toast.makeText(getApplicationContext(), "계산 실패!",
                        Toast.LENGTH_SHORT).show();

                    break;
            }
        }
    }
}
}
}
}
}

```

## <CalcActivity.java>

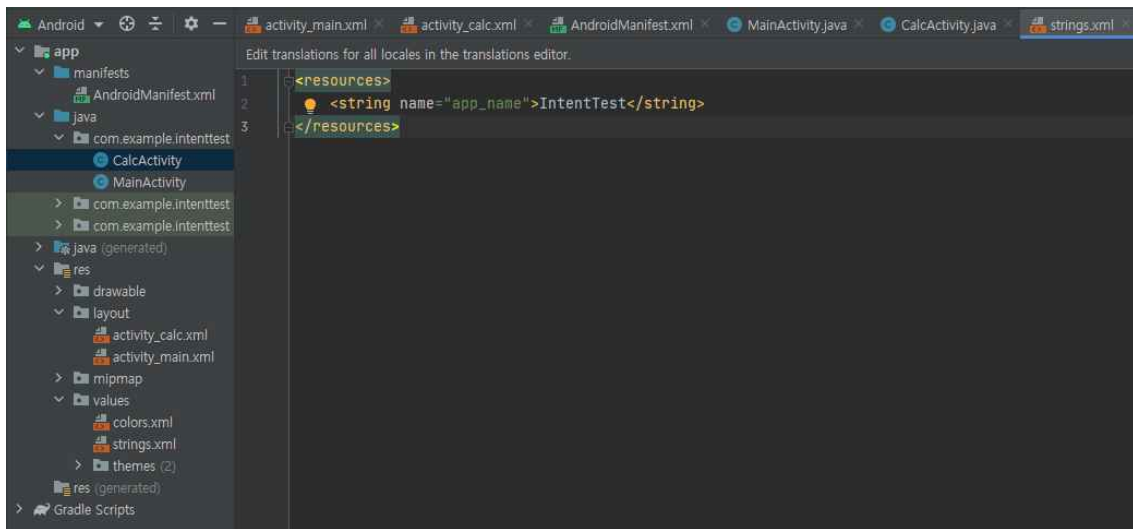


```
package com.example.intenttest;
import android.app.Activity;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
public class CalcActivity extends Activity {
    @Override
    public void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_calc);
        Button back_button = (Button) findViewById(R.id.back_button);
        back_button.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                Intent intent = getIntent();
                Double num1 = intent.getDoubleExtra("NUM1", 0);
                Double num2 = intent.getDoubleExtra("NUM2", 0);
                intent.putExtra("ADD", num1 + num2);
                intent.putExtra("SUB", num1 - num2);
                intent.putExtra("MUL", num1 * num2);
                intent.putExtra("DIV", num1 / num2);
```



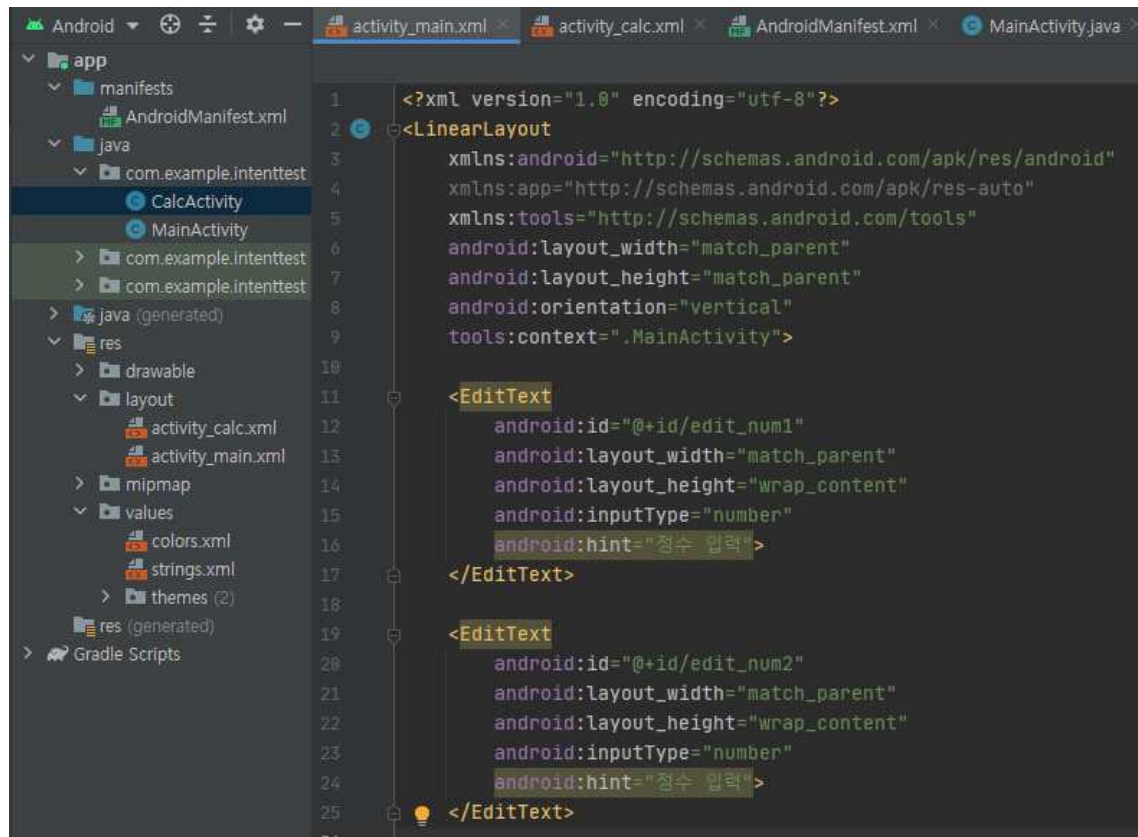
```
        setResult(RESULT_OK, intent);
        finish();
    }
});
}
}
```

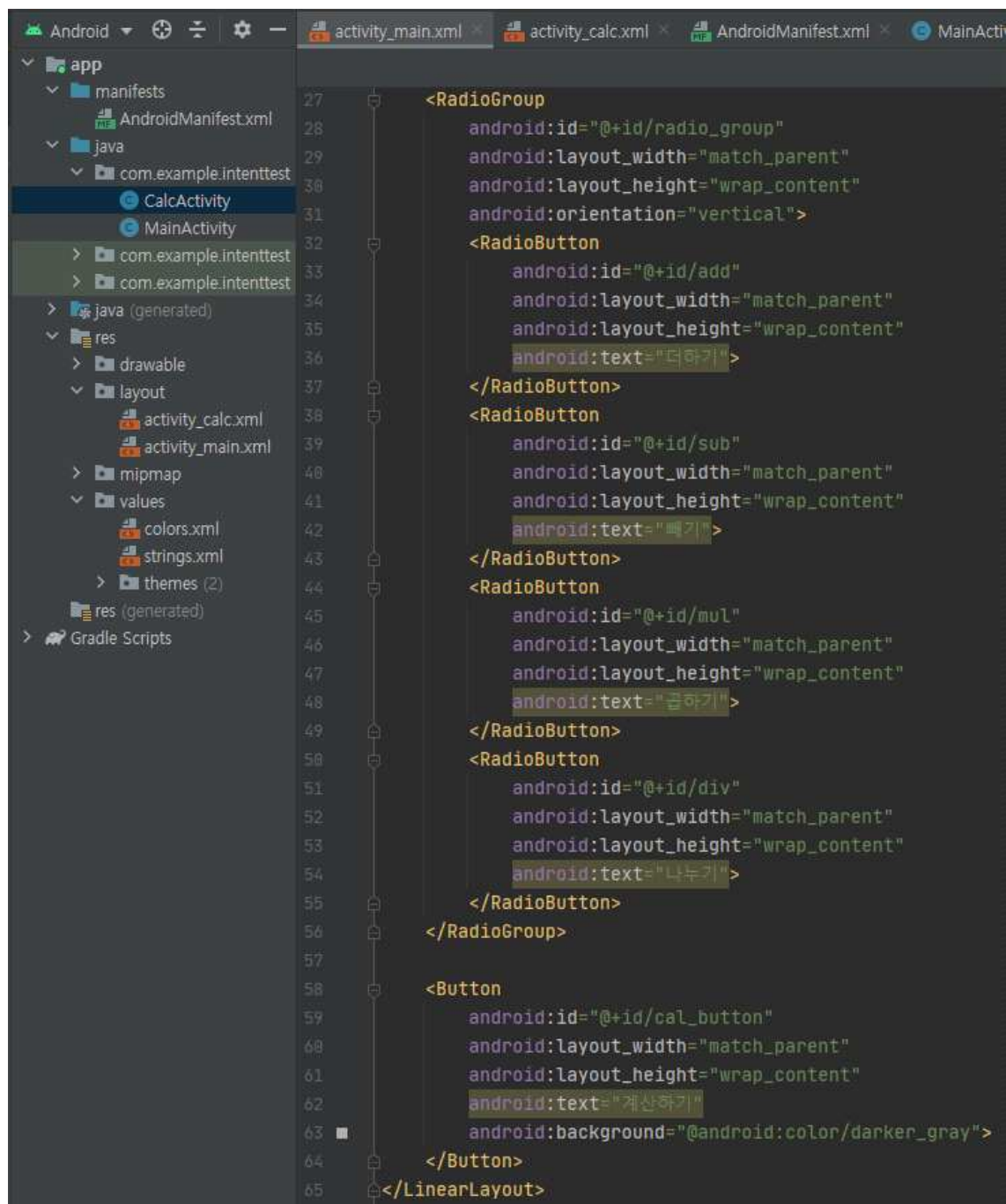
<string.xml>



```
<resources>  
    <string name="app_name">IntentTest</string>  
</resources>
```

## <activity\_main.xml>

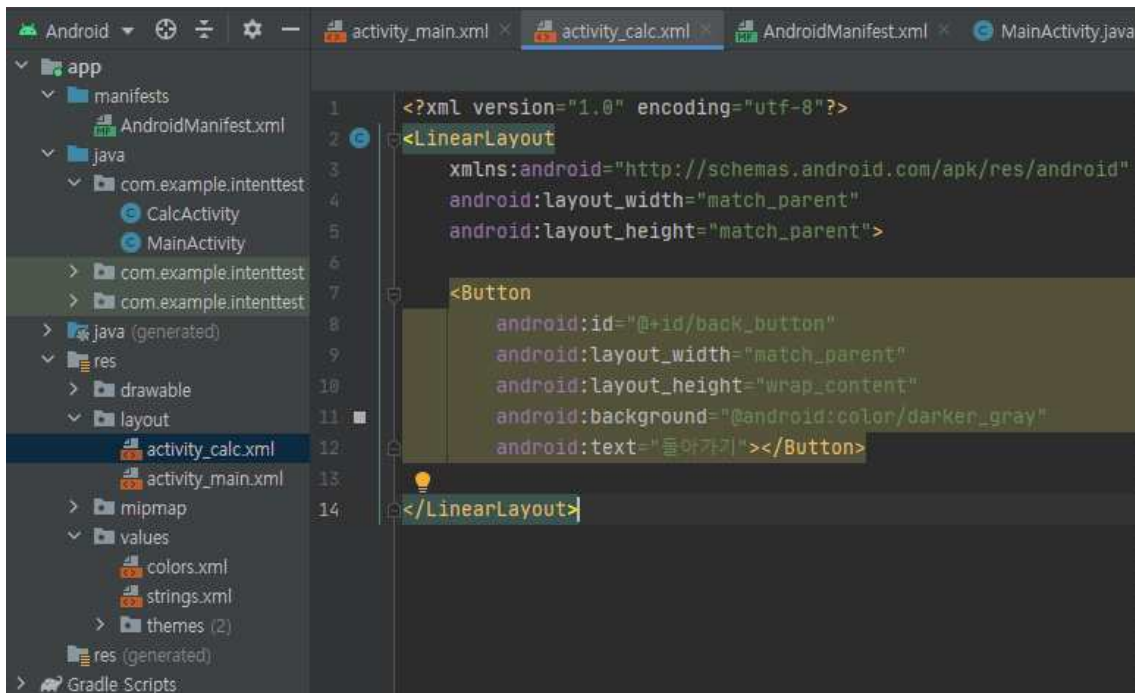




```
<?xml version="1.0"encoding="utf-8"?>
<LinearLayout
xmlns:android="http://schemas.android.com/apk/res/android"
xmlns:app="http://schemas.android.com/apk/res-auto"
xmlns:tools="http://schemas.android.com/tools"
android:layout_width="match_parent"
android:layout_height="match_parent"
android:orientation="vertical"
tools:context=".MainActivity">
    <EditText
        android:id="@+id/edit_num1"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:inputType="number"
        android:hint="정수 입력">
    </EditText >
    <EditText
        android:id="@+id/edit_num2"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:inputType="number"
        android:hint="정수 입력">
    </EditText >
    <RadioGroup
        android:id="@+id/radio_group"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="vertical">
        <RadioButton
            android:id="@+id/add"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:text="더하기">
        </RadioButton >
        <RadioButton
            android:id="@+id/sub"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:text="빼기">
        </RadioButton >
        <RadioButton
```

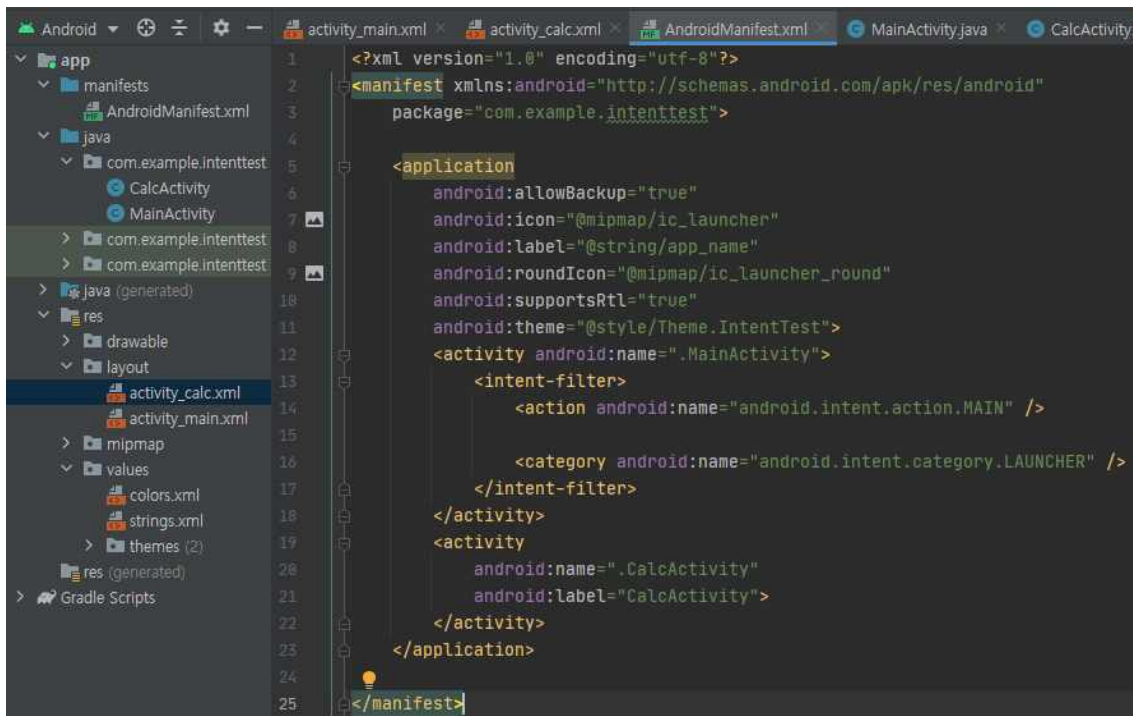
```
        android:id="@+id/mul"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="곱하기">
    </RadioButton >
    <RadioButton
        android:id="@+id/div"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="나누기">
    </RadioButton >
</RadioGroup >
<Button
    android:id="@+id/cal_button"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:text="계산하기"
    android:background="@android:color/darker_gray">
</Button >
</LinearLayout >
```

## <activity\_calc.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">
    <Button
        android:id="@+id/back_button"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:background="@android:color/darker_gray"
        android:text="돌아가기"></Button >
</LinearLayout >
```

## <AndroidManifest.xml>



```
<?xml version="1.0" encoding="utf-8"?>
```

```
<manifest xmlns:android="http://schemas.android.com/apk/res/android"  
package="com.example.intenttest">
```

```
<application
```

```
    android:allowBackup="true"
```

```
    android:icon="@mipmap/ic_launcher"
```

```
    android:label="@string/app_name"
```

```
    android:roundIcon="@mipmap/ic_launcher_round"
```

```
    android:supportsRtl="true"
```

```
    android:theme="@style/Theme.IntentTest">
```

```
<activity android:name=".MainActivity">
```

```
    <intent-filter >
```

```
        <action android:name="android.intent.action.MAIN"/>
```

```
        <category android:name="android.intent.category.LAUNCHER"/>
```

```
    </intent-filter >
```

```
</activity >
```

```
<activity
```

```
    android:name=".CalcActivity"
```

```
    android:label="CalcActivity">
```

```
</activity >
```

```
</application >
```

```
</manifest >
```