스마트폰 프로그래밍 Assign #04

(제목: multi Activity 작성)

학번 : 2018305068

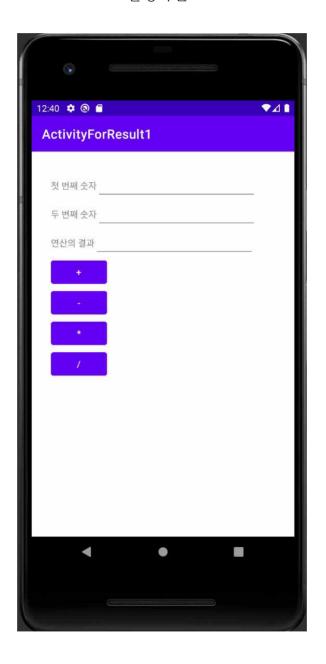
성명 : 정 동 기

제출일자 : 2022.11.06

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>



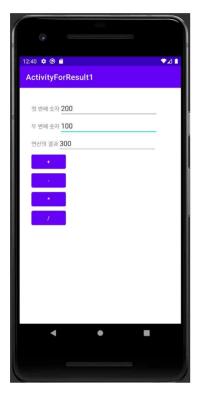


그림 더하기

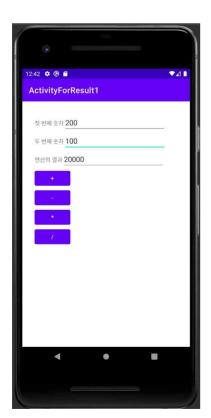


그림 곱하기

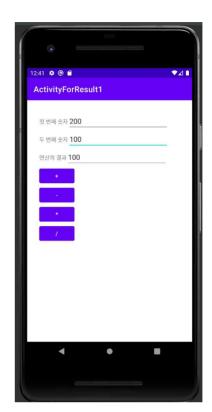


그림 빼기



그림 나누기

<MainActivity.java>

```
🛎 Andr... 😢 🗵 😤 😊 — 🍰 activity_main.xml × 🄞 MainActivity.java × 🔞 SubActivity1,java × 🔞 SubActivity2,java × 🔞 SubActivity2,java × 🔞 SubActivity3,java × 着 s
∨ 📭 app
                                                         package kr.ac.skuniv.ce;
   > manifests
   √ i java
                                                         import androidx.appcompat.app.AppCompatActivity;
∨ 🖿 kr.ac.skuniv.ce
               MainActivity
                                                         import android.content.Intent;
               SubActivity
                                                         import android.os.Bundle;
               © SubActivity1
                                                         import android.view.View;
               © SubActivity2
                                                         import android.widget.Button;
               © SubActivity3
                                                         import android.widget.EditText:
       > kr.ac.skuniv.ce (androidTe 9
                                                         import android.widget.TextView;
       > kr.ac.skuniv.ce (test) 10

✓ I际 java (generated)

        > 🖿 kr.ac.skuniv.ce
                                            12 🖏
                                                         public class MainActivity extends AppCompatActivity {
                                                                static final int GET_RESULT = 1;
       > Im drawable
                                                                TextView text:

✓ Implementation

✓ Imple
                                                                private EditText edit1, edit2, edit3;
              activity main.xml
                                            16
       > 🛅 mipmap

✓ □ values

                                            18 0
                                                                protected void onCreate(Bundle icicle) {
               a colors.xml
                                            19
                                                                      super.onCreate(icicle):
               astrings.xml
           > themes (2)
                                            20
                                                                       setContentView(R.layout.activity_main);
        > 🛅 xml
       res (generated)
                                                                      Button button = (Button) findViewById(R.id.button);
> Gradle Scripts
                                                                      Button button1 = (Button) findViewBvId(R.id.button1):
                                                                       Button button2 = (Button) findViewById(R.id.button2);
                                                                      Button button3 = (Button) findViewById(R.id.button3);
                                                                      edit1 = (EditText) findViewBvId(R.id.edit1):
                                                                       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){
                                                                                    Intent in = new Intent( packageContext: MainActivity.this, SubActivity.class);
                                                                                    in.putExtra( name: "number1", Integer.parseInt(edit1.getText().toString()));
                                                                                    in.putExtra( name: "number2", Integer.parseInt(edit2.getText().toString()));
                                            35
                                                                                    startActivityForResult(in, GET_RESULT);
                                                                       });
    > manifests
                                            38
                                                                       button1.setOnClickListener(new View.OnClickListener(){
                                                                             public void onClick(View arg0){
       ✓ 🖿 kr.ac.skuniv.ce
                                                                                    Intent in = new Intent( packageContext: MainActivity.this, SubActivity1.class);
                MainActivity
                                            41
                                                                                    in.putExtra( name: "number1", Integer.parseInt(edit1.getText().toString()));
                SubActivity
                                                                                    in.putExtra( name: "number2", Integer.parseInt(edit2.getText().toString()));
                SubActivity1
                                                                                    startActivityForResult(in, GET_RESULT);
                © SubActivity2
                © SubActivity3
                                                                       });
       > kr.ac.skuniv.ce (androidTe 45
                                                                       button2.setOnClickListener(new View.OnClickListener(){
       > lim kr.ac.skuniv.ce (test)
     iava (generated)
                                            47 00
                                                                             public void onClick(View arq0){
        > la kr.ac.skuniv.ce
                                            48
                                                                                    Intent in = new Intent( packageContext: MainActivity.this, SubActivity2.class);
     ∨ Ires
                                                                                    in.putExtra( name: "number1", Integer.parseInt(edit1.getText().toString()));
       > 🛅 drawable
                                            50
                                                                                    in.putExtra( name: "number2", Integer.parseInt(edit2.getText().toString()));

✓ □ lavout

                                                                                    startActivityForResult(in, GET_RESULT);
              activity main.xml
        > 🛅 mipmap

✓ I values

                                                                       button3.setOnClickListener(new View.OnClickListener(){
               acolors.xml
                                                                             public void onClick(View arg0){
                                            55 0
                🏭 strings.xml
           > themes (2)
                                                                                    Intent in = new Intent( packageContext MainActivity.this, SubActivity3.class);
        > 🛅 xml
                                                                                    in.putExtra( name: "number1", Integer.parseInt(edit1.getText().toString()));
                                                                                    in.putExtra( name: "number2", Integer.parseInt(edit2.getText().toString()));
> A Gradle Scripts
                                                                                    startActivityForResult(in, GET_RESULT);
                                                                      });
                                                                protected void onActivityResult(int requestCode, int resultCode, Intent data) {
                                            65 📑
                                            66
                                                                       super.onActivityResult(requestCode, resultCode, data);
                                                                       if (requestCode == GET_RESULT) {
                                                                             if (resultCode == RESULT_OK) {
                                                                                    edit3.setText("" + data.getIntExtra( name: "RESULT", defaultValue: 0));
```

```
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 icicle) {
super.onCreate(icicle);
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) findViewBvId(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);
});
```

73 }

```
@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>

```
∨ № арр
                               package kr.ac.skuniv.ce;
   > manifests
   ∨ iava
                               import android.content.Intent:
   ∨ 🛅 kr ac skuniv ce
                         4
                               import android.os.Bundle:
         MainActivity
         © SubActivity
                               import androidx.appcompat.app.AppCompatActivity;
         © SubActivity1
         © SubActivity2
                         8 4
                               public class SubActivity extends AppCompatActivity {
         © SubActivity3
     > kr.ac.skuniv.ce (androidTe 9 of
                                   public void onCreate(Bundle savedInstanceState){
     > lim kr.ac.skuniv.ce (test) 10
                                      super.onCreate((savedInstanceState));
     > lim kr.ac skuniv ce
                                      int first = getIntent().getIntExtra( name: "number1", defaultValue: 0);
    res
                                      int second = getIntent().getIntExtra( name: "number2", defaultValue: 0);
     > 🖿 drawable
                                      int result = first+second;

✓ Iayout

                                      Intent intent = new Intent();
         activity_main.xml
                                      intent.putExtra( name: "RESULT", Integer.parseInt(String.valueOf(result)));
     > mipmap
                                      setResult(RESULT_OK, intent);

∨ I values

                                      finish():
        👼 colors.xml
         🝶 strings.xml
       > themes (2)
                              1
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>

```
V 📭 арр
                                                                     package kr.ac.skuniv.ce;
      > manifests
       ✓ iava
                                                                     import android.content.Intent;
    ∨ 🖿 kr.ac.skuniv.ce
                                                                     import android.os.Bundle:
                    MainActivity
                                                        5
                    © SubActivity
                                                                     import androidx.appcompat.app.AppCompatActivity:
                   © SubActivity1
                   © SubActivity2
                                                                     public class SubActivity1 extends AppCompatActivity {
                                                        8 4
                    © SubActivity3
      > 🖿 kr.ac.skuniv.ce (androidTe 9 👏
                                                                            public void onCreate(Bundle savedInstanceState){
         > kr.ac.skuniv.ce (test) 10
                                                                                     super.onCreate((savedInstanceState));
       java (generated)
          > lim kr.ac.skuniv.ce
                                                                                     int first = getIntent().getIntExtra( name: "number1", defaultValue: 0);
       ∨ Ires
                                                                                      int second = getIntent().getIntExtra( name: "number2", defaultValue: 0);
          > 🛅 drawable
                                                                                      int result = first-second;

✓ Image: Value of the layout and layout a l
                                                                                      Intent intent = new Intent();
                   activity_main.xml
                                                                                      intent.putExtra( name: "RESULT", Integer.parseInt(String.valueOf(result)));
          > 🖿 mipmap
                                                                                      setResult(RESULT_OK, intent);
           ∨ 🛅 values
                                                                                      finish():
                 a colors.xml
                    atrings.xml
              > themes (2)
                                                     20
                                                                    1
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>
    🛎 Andr... 😯 🖭 😤 😊 🕳 activity_main.xml × 🄞 MainActivity.java × ಿ SubActivity.java × 🔞 SubActivity.java × 🔞 SubActivity.java × 🔞 SubActivity.java ×
   V 📭 арр
                                                                      package kr.ac.skuniv.ce;
```

```
> manifests
   ∨ III java
                                    import android.content.Intent:
✓ ► kr.ac.skuniv.ce
                                    import android.os.Bundle:
          MainActivity
                             6
                                    import androidx.appcompat.app.AppCompatActivity;
          © SubActivity1
          © SubActivity2
                             8 🞒
                                    public class SubActivity2 extends AppCompatActivity {
          C SubActivity3
    > kr.ac.skuniv.ce (androidTe 9 of
                                       public void onCreate(Bundle savedInstanceState){
     > 🖿 kr.ac.skuniv.ce (test) 10
                                            super.onCreate((savedInstanceState));
   is java (generated)
    > la krac skuniv ce
                                            int first = getIntent().getIntExtra( name: "number1", defaultValue: 0);
   ✓ Imres
                                            int second = getIntent().getIntExtra( name: "number2", defaultValue: 0);
     > 🖿 drawable
                                            int result = first*second;
     V 🛅 layout
                                            Intent intent = new Intent();
          activity_main.xml
                                            intent.putExtra( name: "RESULT", Integer.parseInt(String.valueOf(result)));
     > 🛅 mipmap
                                             setResult(RESULT_OK, intent);

✓ □ values

                                             finish():
        👼 colors.xml
          🏭 strings.xml
       > (2)
```

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>

```
🛎 Andr...* 😌 🗵 😤 😊 🕳 activity_main.xml × 🄞 MainActivity.java × 🄞 SubActivity1.java × 🔞 SubActivity2.java × 🔞 SubActivity2.java × 🚳
    🗸 📭 арр
                                                                                                package kr.ac.skuniv.ce;
        > manifests
         ∨ 📄 java
              ∨ kr.ac.skuniv.ce
                                                                                                   import android.os.Bundle;
                             MainActivity
                                                                             5
                            © SubActivity
                                                                               6
                                                                                                  import androidx.appcompat.app.AppCompatActivity:
                            C SubActivity1
                            © SubActivity2
                                                                             8 🚑
                                                                                                public class SubActivity3 extends AppCompatActivity {
                             © SubActivity3
               > kr.ac.skuniv.ce (androidTe 9 of
                                                                                                          public void onCreate(Bundle savedInstanceState){
              > kr.ac.skuniv.ce (test) 10
                                                                                                                        super.onCreate((savedInstanceState));

✓ Is iava (generated)

                > kr.ac.skuniv.ce
                                                                                                                        int first = getIntent().getIntExtra( name: "number1", defaultValue: 0);
              ing res
                                                                                                                        int second = getIntent().getIntExtra( name: "number2", defaultValue: 0);
               > 🛅 drawable
                                                                                                                        int result = first/second;

✓ Image: Value of the large of the larg
                                                                                                                         Intent intent = new Intent();
                          activity_main.xml
                                                                                                                        intent.putExtra( name: "RESULT", Integer.parseInt(String.valueOf(result)));
                > 🛅 mipmap
                                                                                                                         setResult(RESULT_OK, intent);

∨ I values

                                                                                                                         finish();
                          👼 colors.xml
                                                                            19
                            atrings.xml
                      > themes (2)
                                                                                           }
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>

```
∨ 📭 app
    > manifests
                                                                  <?xml version="1.0" encoding="utf-8"?>
    ∨ iava
                                                                 <LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
         ✓ 🖿 kr.ac.skuniv.ce
                                                                         android:layout_width="match_parent"
                 MainActivity
                                                                         android:layout_height="match_parent"
                 © SubActivity
                                                                         android:layout_margin="30dp"
                 © SubActivity1
                                                                         android:orientation="vertical">
                 © SubActivity2
                                                                         <LinearLayout
                 © SubActivity3
       > la kr.ac.skuniv.ce (androidTe 8
                                                                                android:layout_width="wrap_content"
        > la kr.ac.skuniv.ce (test)
                                                                                android:layout_height="wrap_content"

✓ Image java (generated)

                                                                                android:orientation="horizontal">
        > lill kr.ac.skuniv.ce
                                                                                <TextView
    ∨ 📭 res
                                                                                        android:layout_height="wrap_content"
        > 🛅 drawable
                                                                                        android:layout_width="wrap_content"

✓ □ layout

                                                                                        android:id="@+id/textView"
                activity_main.xml
                                                                                        android:text="첫 번째 숫자" />
        > 🛅 mipmap
         ∨ 🛅 values
                                                                                        android:layout_height="wrap_content"
                 acolors.xml
                 atrings.xml
                                                  18
                                                                                        android:layout_width="250dp"
            > themes (2)
                                                                                        android:id="@+id/edit1" />
         > 🛅 xml
                                                                         </LinearLayout>
         res (generated)
                                                                         <LinearLayout
> 🗬 Gradle Scripts
                                                                                android:layout width="wrap content"
                                                                                android:layout_height="wrap_content"
                                                                                android:orientation="horizontal">
                                                                                <TextView
                                                  26
                                                                                        android:layout_height="wrap_content"
                                                                                        android:layout_width="wrap_content"
                                                  28
                                                                                        android:id="@+id/textView2"
                                                  29
                                                                                        android:text="두 번째 숫자" />
                                                  30
                                                                                        android:layout_width="250dp"
                                                                                        android:layout_height="wrap_content"
                                                                                        android:id="@+id/edit2" />
                                                                         </LinearLayout>
                                                                         <LinearLayout
    ∨ injava
                                                                               android:layout_width="wrap_content"
       ✓ 🖿 kr.ac.skuniv.ce
                                                                                android:layout_height="wrap_content"
                 MainActivity
                                                  38
                                                                                android:orientation="horizontal">
                 © SubActivity
                                                  39
                                                                                <TextView
                 © SubActivity1
                                                                                        android:layout_height="wrap_content"
                 C SubActivity2
                                                                                        android:layout_width="wrap_content"
                 © SubActivity3
      > 🖿 kr.ac.skuniv.ce (ar
                                                                                        android:id="@+id/textView3"
                                           roidTe 42
        > kr.ac.skuniv.ce (test)
                                                                                        android:text="연산의 결과" />

→ image java (generated)

                                                                                <EditText
        > m kr.ac.skuniv.ce
                                                                                        android:layout_width="250dp"
    ∨ Ires
                                                                                        android: layout height="wrap content"
         > 🛅 drawable
                                                                                        android:id="@+id/edit3" />

✓ Image: Value of the large of the larg
                                                                         </LinearLayout>
                activity_main.xml
        > 🛅 mipmap
                                                                         <Button
                                                                                android:layout_width="wrap_content"
         ∨ 🖿 values
                                                                                android:layout_height="wrap_content"
                 🏭 strings.xml
                                                                                android:onClick="onClick"
            > (2) themes (2)
                                                                                android:id="@+id/button"
         > 🛅 xml
                                                                                android:text="+"/>
         res (generated)
                                                  55
> 🗬 Gradle Scripts
                                                  56
                                                                                android:layout_width="wrap_content"
                                                                                android:layout_height="wrap_content"
                                                  58
                                                                                android:onClick="onClick"
                                                  59
                                                                                android:id="@+id/button1"
                                                                                android:text="-"/>
                                                                         <Button
                                                                                android:layout_width="wrap_content"
                                                                                android: layout height="wrap content"
                                                                                android:onClick="onClick"
                                                  65
                                                                                android:id="@+id/button2"
                                                  66
                                                                                android:text="*"/>
                                                  67
                                                                         <Rutton
                                                                                android:layout_width="wrap_content"
```

```
android:layout_height="wrap_content"
android:onClick="onClick"
android:id="@+id/button3"
android:text="/"/>
android:text="/"/>

**/LinearLayout>

1.0" encoding="utf-8"?>
```

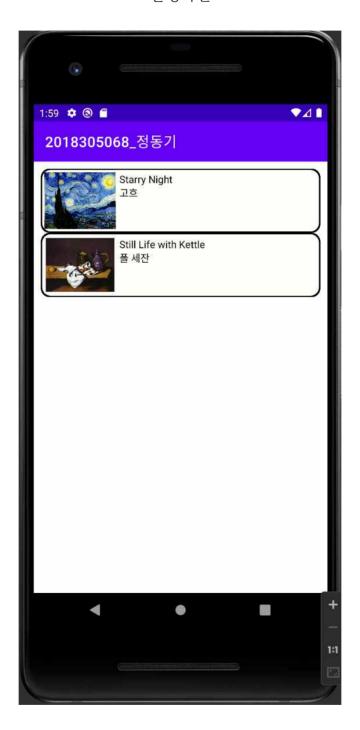
```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
android:layout_width="match_parent"
android:layout_height="match_parent"
android:layout_margin="30dp
android:orientation="vertical">
<LinearLayout
android:layout_width="wrap_content"
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"

</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>

```
✓ 🍊 app 🔻 🖂 firstmission 🔻 😋 🧲
  \textbf{IntentTest1} \ \rangle \ \textbf{app} \ \rangle \ \text{src} \ \rangle \ \textbf{main} \ \rangle \ \text{res} \ \rangle \ \textbf{layout} \ \rangle \ \frac{d}{ds} \ \text{sub.xml}
                                   ⊕ 🗵 😤 💠 — 🚜 activity_main.xml × 👼 sub.xml × 👼 strings.xml × 👼 border.xml × 🧶 MainActivity.java × 🧶 SubActivity.java × 👼 AndroidManifest.xml

▲ Android ▼

      Y app
                                                                           package kr.ac.skuniv.ce;
               AndroidManifest.xml
                                                                          import androidx.appcompat.app.AppCompatActivity;
        ∨ 📄 java
            ∨ Na krac skuniv co
                                                                           import android.content.Intent;
                   MainActivity
                                                                           import android.os.Bundle:
            © SubActivity
                                                                          import android.view.View:
                                                                          import android.widget.ImageButton;
                                                                          import android.widget.TextView;
         > k java (generated)

✓ I drawable

                                                              11
                                                                           public class MainActivity extends AppCompatActivity {
                   aborder.xml
                                                                                @Override
                    👼 ic_launcher_background.xml
                                                              13 🍑
                                                                                 protected void onCreate(Bundle savedInstanceState) {
                   a ic launcher foreground.xml (v24)
                                                                                      super.onCreate(savedInstanceState):
                    image1.jpg (v24)
                                                              15
                                                                                       setContentView(R.layout.activity_main);
                    image2.jpg (v24)

✓ Image: Value of the large of the larg
                                                                                      ImageButton button1 = (ImageButton) findViewById(R.id.imageButton);
                   activity main.xml
                   sub.xml
                                                                                      ImageButton button2 = (ImageButton) findViewById(R.id.imageButton1);
                                                                                       TextView text = (TextView) findViewBvId(R.id.text);
                                                                                       TextView text1 = (TextView) findViewById(R.id.text1);

∨ I values

                                                                                       TextView text2 = (TextView) findViewById(R.id.text2);
                   # strings.xml
                                                                                       TextView text3 = (TextView) findViewById(R.id.text3);
                > themes (2)
            > Province
                                                                                       button1.setOnClickListener(new View.OnClickListener(){
            res (generated)
                                                              25 01
                                                                                            public void onClick(View v){
      > A Gradle Scripts
                                                                                                   Intent in = new Intent( packageContext: MainActivity.this,SubActivity.class);
                                                                                                    in.putExtra( name: "string1",text.getText().toString());
 S
                                                              28
                                                                                                   in.putExtra( name: "string2",text1.getText().toString());
                                                              29
                                                                                                   in.putExtra( name: "flag", value: 0);
                                                                                                   startActivitv(in):
 ■ Book
                                                                                       1):
                                                                                       button2.setOnClickListener(new View.OnClickListener(){
                                                                                             public void onClick(View v){
                                                              34 🐠
                                                                                                   Intent in = new Intent( packageContext MainActivity.this,SubActivity.class);
                                                              35
                                                                                                   in.putExtra( name: "string1",text2.getText().toString());
                                                              36
    in.putExtra( name: "string2",text3.getText().toString());
                                                                                                      in.putExtra( name: "flag", value: 1);
                                                                                                       startActivity(in):
                                                                                         1).
                                                                                   }
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) findViewBvId(R.id.text);
TextView text = (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>

```
🛎 Android 🔻 🔞 🖫 😤 🔯 🗕 🧓 activity_main.xml × 👼 sub.xml × 👼 strings.xml × 👼 border.xml × 🍩 MainActivity.java × 🔞 SubActivity.java × 🛣 AndroidManifest.xml
                                                                                                           package kr.ac.skuniv.ce;
            manifests
                  AndroidManifest.xml
                                                                                                       mont android.os.Bundle:
         ∨ iava
                                                                                                        import android.widget.ImageView:
                                                                                                        import android.widget.TextView;

    Main Activity
    Mac
                        © SubActivity
                                                                                                      import androidx.appcompat.app.AppCompatActivity;
            > kr.ac.skuniv.ce (androidTest)
            > 🖙 java (generated)
        ∨ 📭 res
              drawable
                                                                                                                   @Override
                     aborder.xml
                                                                                       12 0
                                                                                                                 protected void onCreate(Bundle savedInstanceState) {
                        aic launcher background.xml
                                                                                                                           super.onCreate(savedInstanceState);
                        ic_launcher_foreground.xml (v24)
                                                                                                                           setContentView(R.layout.sub);
                        # image1.jpg (v24)
                        image2.jpg (v24)
                                                                                                                            TextView text4 = (TextView) findViewById(R.id.text4);
TextView text5 = (TextView) findViewById(R.id.text5);
                                                                                        16

✓ Image layout

                      activity_main.xml
                                                                                                                            ImageView imageview = (ImageView) findViewBvId(R.id.imageview);
                   sub.xml
                                                                             18
             > 🛅 mipmap
                                                                                                                             text4.setText(getIntent().getStringExtra( name: "string1"));
               values
                                                                                        20
                   👶 colors.xml
                                                                                                                             text5.setText(getIntent().getStringExtra( name: "string2"));
                       atrinas.xml
                  > themes (2)
                                                                                                                            String title = getIntent().getStringExtra( name: "string2");
             > D xml
             res (generated)
                                                                                                                            if(title.equals("고흐")){
   > @ Gradle Scripts
                                                                                                                                      imageview.setImageResource(R.drawable.image1);
                                                                                       26 🔼
                                                                                                                             else if(title.equals("폴 세잔")){
                                                                                        29 🔼
                                                                                                                                      imageview.setImageResource(R.drawable.image2);
                                                                                       30
package kr.ac.skuniv.ce;
import android.os.Bundle;
```

setContentView(R.layout.sub);

```
import android.widget.ImageView;
import android.widget.TextView;
import androidx.appcompat.app.AppCompatActivity;
public class SubActivity extends AppCompatActivity {
protected void onCreate(Bundle savedInstanceState) {
super.onCreate(savedInstanceState);
```

```
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("고흐")){
imageview.setImageResource(R.drawable.image1);
}
else if(title.equals("폴세잔")){
imageview.setImageResource(R.drawable.image2);
}
}
```

<string.xml>



<activity_main.xml>

```
∨ manifests
                                                                       <?xml version="1.0" encoding="utf-8"?>
           AndroidManifest xml
                                                                       <LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
          java
                                                                             android:layout_width="match_parent"
        ∨ Nac skuniv co
                                                            4
                                                                             android:layout height="match parent"
               MainActivity
                                                                             android:layout_margin="10dp"
               © SubActivity
                                                                             android:orientation="vertical">
      > kr.ac.skuniv.ce (androidTest)
        > la kr.ac.skuniv.ce (test)
                                                                             <LinearLayout
    > 🎼 java (generated)
                                                                                    android:layout_width="match_parent"
    ∨ Nares
                                                                                    android:layout_height="wrap_content"
        ✓ Image drawable
                                                                                    android:orientation="horizontal"
               4 horder vml
                                                           11
                                                                                    android:background="@drawable/border">
               a ic_launcher_background.xml
                                                                                    <ImageButton android:id="@+id/imageButton"</pre>
                🚜 ic_launcher_foreground.xml (v24)
                                                                                          android:layout_margin="5dp"
               image1.ipg (y24)
                                                                                          android:layout_width="100dp"
                image2.jpg (v24)
                                                                                          android:layout_height="80dp"

✓ I layout

                                                                                          android:padding="Odp"
               activity main.xml
               sub.xml
                                                                                          android:scaleType="fitCenter"
        > 🛅 mipmap
                                                          18 🔼
                                                                                          android:src="@drawable/image1" />
        ∨ 🖿 values
                                                                                    <! inear! avout</pre>
               a colors.xml
                                                                                          android:layout width="wrap content"
               strings.xml
                                                                                          android:layout_height="wrap_content"
           > themes (2)
                                                                                          android:layout_marginTop="5dp
        > 🖿 xml
                                                                                          android:orientation="vertical">
        res (generated)
                                                                                          <TextView android:id="@+id/text"
 > @ Gradle Scripts
                                                          25
                                                                                                android:layout_width="wrap_content"
                                                                                                 android:layout_height="wrap_content"
                                                          27
                                                                                                 android:textColor="@color/black"
                                                                                                 android:text="Starry Night"/>
                                                                                          <TextView android:id="@+id/text1"
                                                           30
                                                                                                android:layout_width="wrap_content"
                                                                                                 android:layout_height="wrap_content"
                                                           32
                                                                                                 android:textColor="@color/black"
                                                                                                android:text="고호"/>
                                                                                   <LinearLavout
        V D krac skupiv co
                                                           36
                                                                                   android:layout_width="match_parent
               MainActivity
               © SubActivity
                                                                                    android:layout_height="wrap_content"
        > Im kr.ac skuniv ce (androidTest)
                                                                                    android:orientation="horizontal"
        > 🖿 kr.ac.skuniv.ce (test)
                                                           40
                                                                                    android:background="@drawable/border">
    > 🎼 java (generated)
                                                                                    <ImageButton android:id="@+id/imageButton1"</pre>
     ∨ Na res
                                                                                          android: layout_margin="5dp"
        ✓ □ drawable
                                                                                          android:layout width="100dp"
               aborder.xml
                                                                                          android:layout height="80dp"
               a ic_launcher_background.xml
                                                                                        android:padding="0dp"
                ic_launcher_foreground.xml (v24)
                                                                                          android:scaleType="fitCenter"
               image1.jpg (v24)
                image2.jpg (v24)
                                                          47
                                                                                          android:src="@drawable/image2" />

✓ Implementation | Implementation |
                                                          48
                                                                                    <LinearLayout
               activity_main.xml
                                                                                          android:layout_width="wrap_content"
                                                      50
               aub.xml
                                                                                          android: layout_height="wrap_content"
        > 🛅 mipmap
                                                                                          android:layout_marginTop="6dp"
                                                                                          android:orientation="vertical">
               a colors,xml
                                                                                          <TextView android:id="@+id/text2"
               a strings.xml
                                                                                                android:layout_width="wrap_content"
                                                          55
                                                                                                 android: layout_height="wrap_content"
        > 🔯 xml
        res (generated)
                                                          56
                                                                                                 android:textColor="@color/black"
 > A Gradle Scripts
                                                                                                android:text="Still Life with Kettle"/>
                                                                                          <TextView android:id="@+id/text3"
                                                                                               android:layout width="wrap content'
                                                                                                android:layout_height="wrap_content"
                                                          61
                                                                                                android:textColor="@color/black"
                                                                                                 android:text="폴 세잔"/>
                                                                                    </LinearLayout>
                                                                             </LinearLayout>

%xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
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"</pre>
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="মুক্ত্"/>
</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"</pre>
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>

```
■ Code ■ Split ■ Design
   ∨ manifects
                                          <?xml version="1.0" encoding="utf-8"?>
       AndroidManifest.xml
                                         <LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
    iava
                                   3
                                             android:layout_width="match_parent"

✓ I kr.ac.skuniv.ce

                                             android:layout_height="match_parent"
         MainActivity
                                             android:orientation="vertical">
         SubActivity
    > Im kr.ac.skuniv.ce (androidTest)
                                             <TextView
     > 🖿 kr.ac.skuniv.ce (test)
   > 🎼 java (generated)
                                                android:id="@+id/text4"
   ∨ Ires
                                                 android:layout width="match parent"
    drawable
                                                 android:layout_height="wrap_content"
         🏭 border.xml
                                                 android:background="#E9E5DA"
         aic launcher background.xml
                                                 android:gravity="center'
         ic_launcher_foreground.xml (v24)
                                  13 🔳
                                                 android:textColor="#61471B"
         image1.ipg (v24)
                                  14
                                                 android:textSize="20dp" />
         image2.jpg (v24)
                                             <TextView
     ∨ 🛅 layout
         activity_main.xml
                                                 android:id="@+id/text5"
         👼 sub.xml
                                                 android:layout_width="match_parent"
     > 🛅 mipmap
                                                 android:layout_height="wrap_content"

∨ I values

                                                 android:layout_margin="5dp"
         👼 colors.xml
                                  20
                                                 android:gravity="right"
         atrings.xml
                                  21
                                                 android:textColor="#8BB590"
      > themes (2)
                                                 android:textSize="10dp" />
     > 🛅 xml
                                             <ImageView android:id="@+id/imageview"</pre>
    res (generated)
                                                 android:layout_margin="5dp"
 > @ Gradle Scripts
                                  25
                                                 android:layout_width="match_parent"
                                  26
                                                 android:layout_height="350dp"/>
                                         </LinearLayout>
                                  28
</xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
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"</pre>
android:layout_margin="5dp" android:layout_width="match_parent" android:layout_height="350dp"/>
</LinearLayout>
```

<border.xml>

```
∨ manitosts
                                                                                                                               <?xml version="1.0" encoding="utf-8"?>
                   AndroidManifest.xml
                                                                                                                                <layer-list xmlns:android="http://schemas.android.com/apk/res/android">
       ∨ iava

∨ I kr.ac.skuniv.ce

                                                                                                                                                         <shape android:shape="rectangle">
                                                                                                             4
                         MainActivity
                                                                                                                                                                   <solid android:color="#000000" />
                                                                                                             5
                          C SubActivity
           > kr.ac.skuniv.ce (androidTest)
                                                                                                                                                                    <corners
           > lim kr.ac.skuniv.ce (test)
                                                                                                                                                                            android:topLeftRadius="12dp"
       > 🎼 java (generated)
                                                                                                            8
                                                                                                                                                                               android:topRightRadius="12dp

✓ ■ res

                                                                                                            0
                                                                                                                                                                             android hottom eftRadius="12dn"

✓ Image of the variable o
                                                                                                                                                                               android:bottomRightRadius="12dp"/>
                         🍶 border.xml
                                                                                                                                                        </shape>
                           🟭 ic_launcher_background.xml
                                                                                                                                            </item>
                          ic_launcher_foreground.xml (v24)
                                                                                                                                            <item
                           image1.jpg (v24)
                                                                                                          14
                                                                                                                                                         android:top="2dp"
                           image2.jpg (v24)
                                                                                                                                                       android:bottom="2dp"

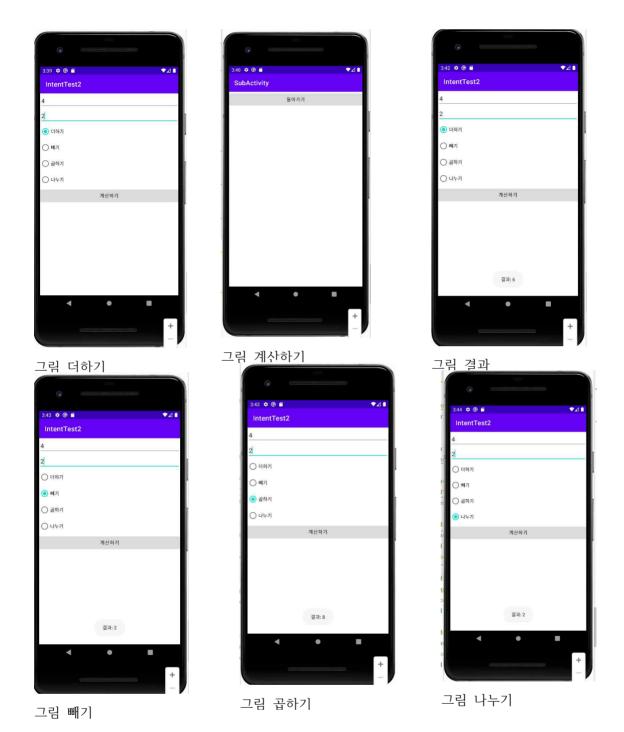
✓ Image: Value of the Valu
                           🏭 activity_main.xml
                                                                                                                                                       android:left="2dp"
                                                                                                                                           android:right="2dp">
                      👼 sub.xml
             > 🛅 mipmap
                                                                                                          18
                                                                                                                                                        <shape android:shape="rectangle">
             ∨ 🛅 values
                                                                                                          19
                                                                                                                                                                   <solid android:color="#F6F7F1" />
                         a colors.xml
                                                                                                                                                                   <corners
                          a strings.xml
                                                                                                                                                                             android:topLeftRadius="12dp"
                   > themes (2)
                                                                                                                                                                               android:topRightRadius="12dp"
             > 🛅 xml
                                                                                                                                                                             android:bottomLeftRadius="12dp"
             res (generated)
                                                                                                                                                                             android:bottomRightRadius="12dp"/>
> @ Gradle Scripts
                                                                                                                                                         </shape>
                                                                                                                                </item>
                                                                                                          28
                                                                                                                               </layer-list>
 <?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>





<MainActivity.java>

```
🛎 Android 🔻 😲 💆 😤 💠 — 🍰 activity_main.xml × 🍰 sub.xml × 🏮 MainActivity.java × 🚨 SubActivity.java × 👼 AndroidManifest.xml ×
                                                                     package kr.ac.skuniv.ce;
    В арр
              AndroidManifest.xml
                                                                    import androidx.appcompat.app.AppCompatActivity;
         ∨ 🖿 kr.ac.skuniv.ce
                                                                    import android.content.Intent:
                                                                    import android.os.Bundle:
                  © SubActivity
                                                                     import android view View:
        > kr.ac.skuniv.ce (androidTest)
                                                                    import android.widget.Button;
         > tr.ac.skuniv.ce (test)
      > 🖙 java (generated)
                                                         9
                                                                     import android.widget.EditText;
     ∨ 📭 res
                                                       10
                                                                     import android.widget.RadioButton;
         > I drawable
                                                                     import android.widget.Toast;
          ∨ 🖿 layout
          activity_main.xml 13 public class MainActivity extends AppCompatActivity {
                  🚜 sub.xml
                                                      14
                                                                          private EditText edit1, edit2;
         > minman
                                                       15
                                                                             public char chr;
         > 🖿 values
                                                       16
                                                                             static final int GET_RESULT = 1;
         > 🛅 xml
                                                       17 @
                                                                            public void radioClicked(View view){
         res (generated)
                                                       18
                                                                                    boolean radiobutton = ((RadioButton) view).isChecked();
  > Gradle Scripts
                                                       19
                                                                                     switch (view.getId()){
                                                        20
                                                                                            case R.id.radiobutton1:
                                                                                                   chr = '+';
                                                                                                   break:
                                                                                            case R.id.radiobutton2:
                                                                                             chr = '-';
                                                                                                   break;
                                                                                             case R.id.radiobutton3:
                                                                                                   break;
                                                        29
                                                                                             case R.id.radiobutton4:
                                                        30
                                                                                                   break;
                                                        34
                                                        35
                                                        36 ●↑
                                                                            protected void onCreate(Bundle icicle) {
                                                                                    super.onCreate(icicle);
        > kr.ac.skuniv.ce (androidTest)
                                                                                    setContentView(R.layout.activity_main);
         > kr.ac.skuniv.ce (test)
     > k java (generated)
      ∨ Ires
                                                                                    Button button = (Button) findViewById(R.id.button);

✓ Image: Value of the large of the larg
                                                                                    edit1 = (EditText) findViewById(R.id.edit1);
   activity_main.xml 43
                                                                                    edit2 = (EditText) findViewById(R.id.edit2);
                 aub.xml
                                                                                    button.setOnClickListener(new View.OnClickListener(){
         > 🖿 mipmap
                                                       45 🐠
                                                                                            public void onClick(View arg0){
         > 🖿 values
                                                                                                   Intent in = new Intent( packageContext: MainActivity.this, SubActivity.class);
         > 🛅 vml
                                                                                                    in.putExtra( name: "number1", Integer.parseInt(edit1.getText().toString()));
         res (generated)
                                                                                                   in.putExtra( name: "number2", Integer.parseInt(edit2.getText().toString()));
                                                       48
 > @ Gradle Scripts
                                                                                                   in.putExtra( name: "char1",chr);
                                                                                                   startActivityForResult(in,GET_RESULT);
                                                        50
                                                                                           }
                                                                                    }):
                                                                            }
                                                       55 of
                                                                             protected void onActivityResult(int requestCode, int resultCode, Intent data) {
                                                                                     super.onActivityResult(requestCode, resultCode, data);
                                                                                    if (requestCode == GET_RESULT) {
                                                        58
                                                                                          if (resultCode == RESULT OK) {
                                                                                                   Toast.makeText(this.getApplicationContext(),
                                                                                                                   text: "결과: "+data.getIntExtra( name: "RESULT", defaultValue: 0),
                                                                                                                  Toast.LENGTH_SHORT).show();
                                                                                            }
                                                                                    }
                                                                             }
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. radiobutton 1:
chr = '+';
break;
case R.id. radiobutton 2:
chr = '-';
break;
case R.id. radiobutton 3:
chr = '*';
break;
case R.id. radiobutton 4:
chr = '/';
break;
@Override
protected void onCreate(Bundle icicle) {
super.onCreate(icicle);
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>

```
🛎 Android 🔻 😲 🗵 😤 💠 — 🍰 activity_main.xml × 🍰 sub.xml × 🄞 MainActivity.java × 👶 SubActivity.java × 👼 AndroidManifest.xml ×
 ∨ 📭 app
                                  package kr.ac.skuniv.ce;
    manifests
       AndroidManifest.xml
                                import android.content.Intent:
   ∨ iava
                                 import android.os.Bundle;

✓ I kr.ac.skuniv.ce

                                 import android.view.View:
                                 import android.widget.Button;
         © SubActivity
    > Image: kr.ac.skuniv.ce (androidTest)
    > lac.skuniv.ce (andiorest)
> lac.skuniv.ce (test)
8
                                import androidx.appcompat.app.AppCompatActivity;
   > 🎼 java (generated)
                           public class SubActivity extends AppCompatActivity {
   ∨ 📭 res
    > 🛅 drawable
                                     public int result = 0;
     ∨ 🛅 lavout
                           12 👏
                                     public void onCreate(Bundle savedInstanceState){
     activity_main.xml
                                         super.onCreate((savedInstanceState)):
         遇 sub.xml
                                         setContentView(R.layout.sub);
     > 🛅 minman
                           15
     > 🛅 values
                           16
                                        Button button = (Button) findViewById(R.id.button);
     > 🛅 xml
    res (generated)
                           18
                                         int first = getIntent().getIntExtra( name: "number1", defaultValue: 0);
 > @ Gradle Scripts
                           19
                                         int second = getIntent().getIntExtra( name: "number2", defaultValue: 0);
                           20
                                         char chr = getIntent().getCharExtra( name: "char1", defaultValue: '+');
                                         if(chr == '+'){
                                            result = first+second;
                                         else if (chr == '-'){
                           25
                                            result = first-second;
                                         else if (chr == '*') {
                           28
                                            result = first * second;
                           29
                           30
                                         else if (chr == '/'){
                                            result = first/second;
                                         button.setOnClickListener(new View.OnClickListener() {
                           34 🐠
                                            public void onClick(View v) {
                           35
                                                Intent intent = new Intent();
                                                 intent.putExtra( name: "RESULT", result);
setResult(RESULT_OK, intent);
                                                 finish():
                                         });
                           40
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>

```
∨ 📭 app

∨ manifests

                                        <?xml version="1.0" encoding="utf-8"?>
        AndroidManifest.xml
                                       <LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
                                            android:layout width="match parent"

∨ Imac skuniy ce

                                            android: layout_height="match_parent"
          MainActivity
                                            android:orientation="vertical">
           © SubActivity
     > kr.ac.skuniv.ce (androidTest)
                                            <EditText
     > 🖿 kr.ac.skuniv.ce (test)
                                                android:layout_height="wrap_content"
   > kiava (generated)
                                                 android:layout_width="match_parent"
    ∨ 📭 res
                                                 android:id="@+id/edit1" />
     > 🖿 drawable
                                10
                                            <EditText

✓ Image layout

                                                android:layout_width="match_parent"
          activity_main.xml
                                                 android:layout_height="wrap_content"
          asub.xml
                                                android:id="@+id/edit2" />
      > 🛅 mipmap
                                            <RadioGroup android:id="@+id/radiogro

✓ Image values

                                                android:layout_width="match_parent"
          a colors.xml
                                                 android:layout_height="wrap_content"
         strings.xml
        > themes (2)
                                                 android:orientation="vertical">
     > 🖿 xml
                                                 <RadioButton android:id="@+id/radiobutton1"
     res (generated)
                                                    android:layout_width="wrap_content"
                                19
 > A Gradle Scripts
                                                    android:onClick="radioClicked"
                                20
                                                     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"
                                28
                                                    android:layout_width="wrap_content"
                                                    android:layout_height="wrap_content"
                                30
                                                    android:onClick="radioClicked"
                                                     android:text="곱하기"/>
                                                 <RadioButton android:id="@+id/radiobutton4"
                                                    android:layout_width="wrap_content"
        > 1 themes (2)
                                                    android:layout_height="wrap_content"
     > 🖿 xml
                                                    android:onClick="radioClicked"
                                36
     res (generated)
                                                    android:text="나누기"/>
 > @ Gradle Scripts
                                            </RadioGroup>
                                38
                                40
                                            <Button android:id="@+id/button"
                                               android:layout width="match parent"
                                                android: layout_height="wrap_content"
                                                android:text="계산하기"
                                                android:textColor="@color/black'
                                44
                                                android:backgroundTint="#D6D6D6"/>
                               45

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="폐기"/>
< 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>

```
✓ ■ manifests

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

∨ Imac skuniv ce

                                        android:layout_height="match_parent"
          MainActivity
          © SubActivity
                                        android:orientation="vertical">
                                       <Button android:id="@+id/button"
      > kr.ac.skuniv.ce (androidTest)
     > kr.ac.skuniv.ce (test)
                                     android:layout_width="match_parent"
android:layout_height="wrap_content"
     iava (generated)
                                          android:text="돌아가기"
     > 🛅 drawable
                             10
                                           android:textColor="@color/black"

∨ I lavout

                                           android:backgroundTint="#D6D6D6"/>
                            11
         activity_main.xml
                                 </LinearLayout>
      > 🛅 mipmap
 <?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
android:layout_width="match_parent"</pre>
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>
```