



액티비티와 인텐트



1. 액티비티와 인텐트

2

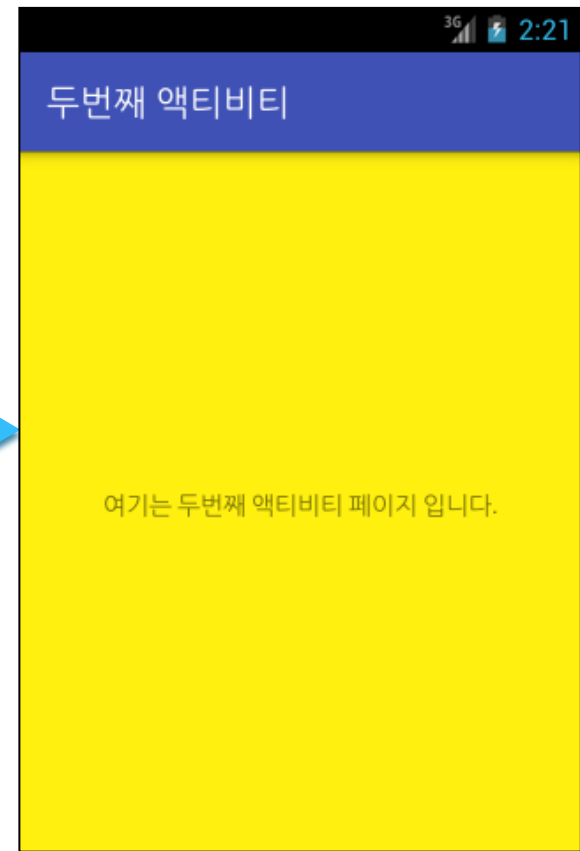
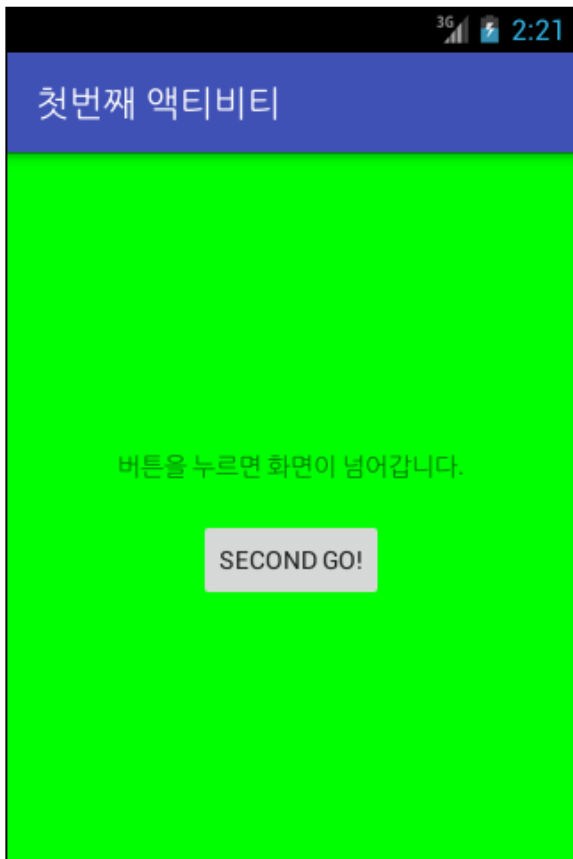
❖ 액티비티

- ✓ 액티비티 하나당 화면을 하나씩 생성할 수 있는데, 일반적으로 **액티비티 하나 당 XML 파일 하나**를 만들어서 사용한다.
- ✓ TestActivity.java 코드는 다음과 같이 Activity 클래스를 상속받으므로 TestActivity.java를 액티비티라고 부른다.

```
public class TestActivity extends Activity {  
    @Override  
    public void onCreate(Bundle savedInstanceState) {  
        ~~~~ 중간 생략 ~~~~  
    }  
}
```

Intent 구조

3



액티비티와 인텐트- 화면전환

4



Application name: **IntentBase**

Company Domain: **admid.example.com**

Project location: **C:\Android\StdWork\InnerClassBtn**

Target Android Devices

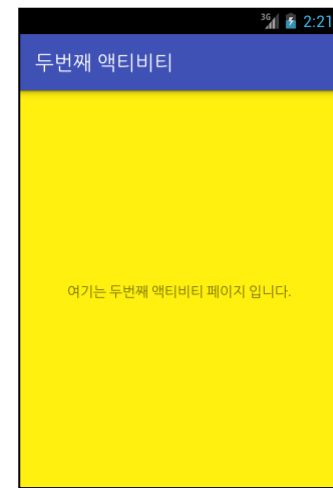
- **Phone and Tabet**
- **Minimun SDK API 15 : Android 4.0.3**

Add an activity to Mobile : **Empty Activity**

Customize the Activity

Activity Name: **MainActivity**

Layout Name: **activity_main**



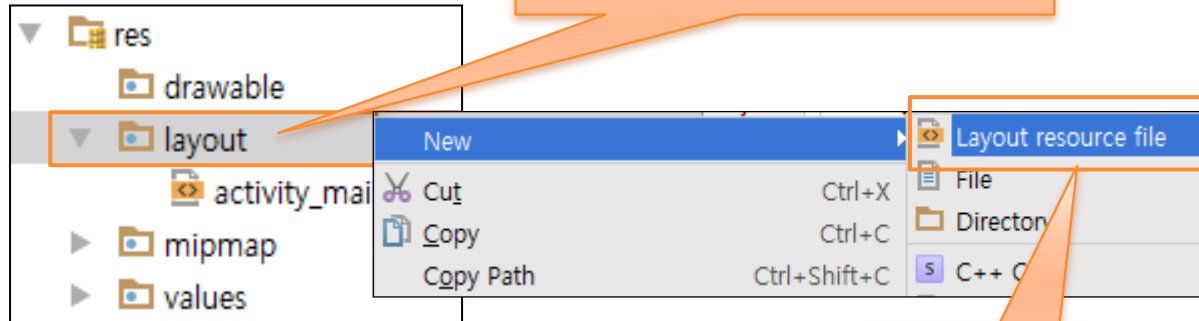
activity_main.xml x

```
1  <?xml version="1.0" encoding="utf-8"?>
2  <LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
3      android:layout_width="match_parent"
4      android:layout_height="match_parent"
5      android:background="#00FF00"
6      android:gravity="center"
7      android:orientation="vertical">
8
9      <TextView
10         android:layout_width="wrap_content"
11         android:layout_height="wrap_content"
12         android:text="버튼을 누르면 화면이 넘어갑니다."
13         android:layout_margin="20dp"/>
14
15     <Button
16         android:id="@+id/button"
17         android:layout_width="wrap_content"
18         android:layout_height="wrap_content"
19         android:text="Second Go!" />
20 </LinearLayout>
```

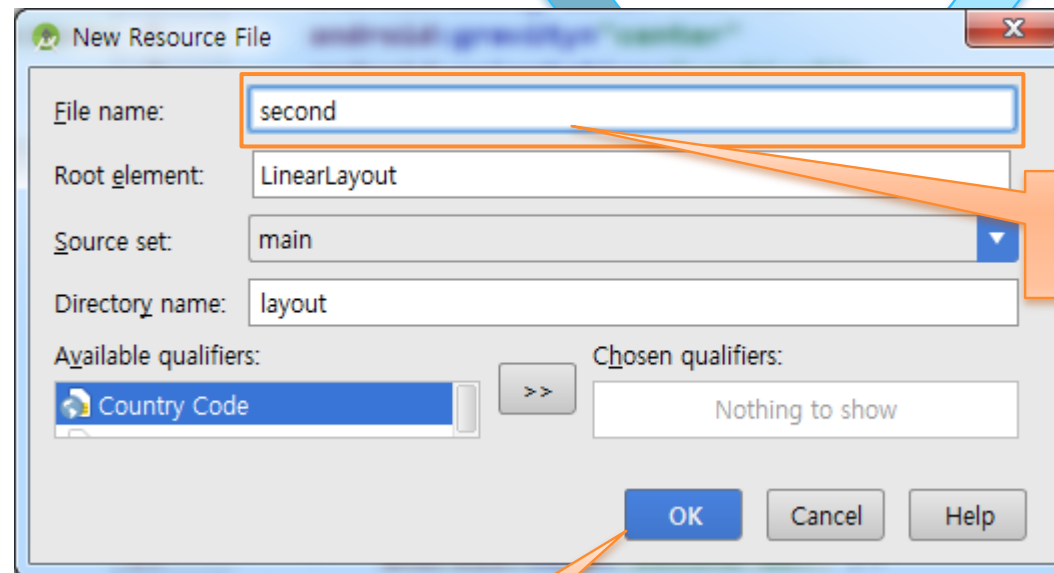
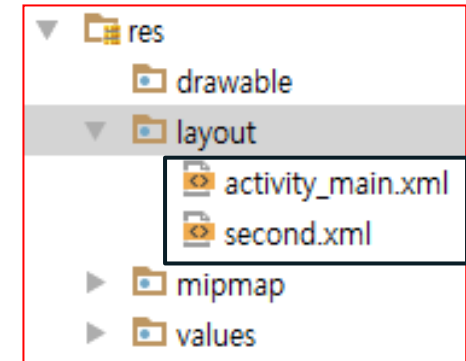
1. 코딩



2. 오른쪽 마우스 클릭



3. 클릭



4. "second" 입력

5. 클릭

6.코딩

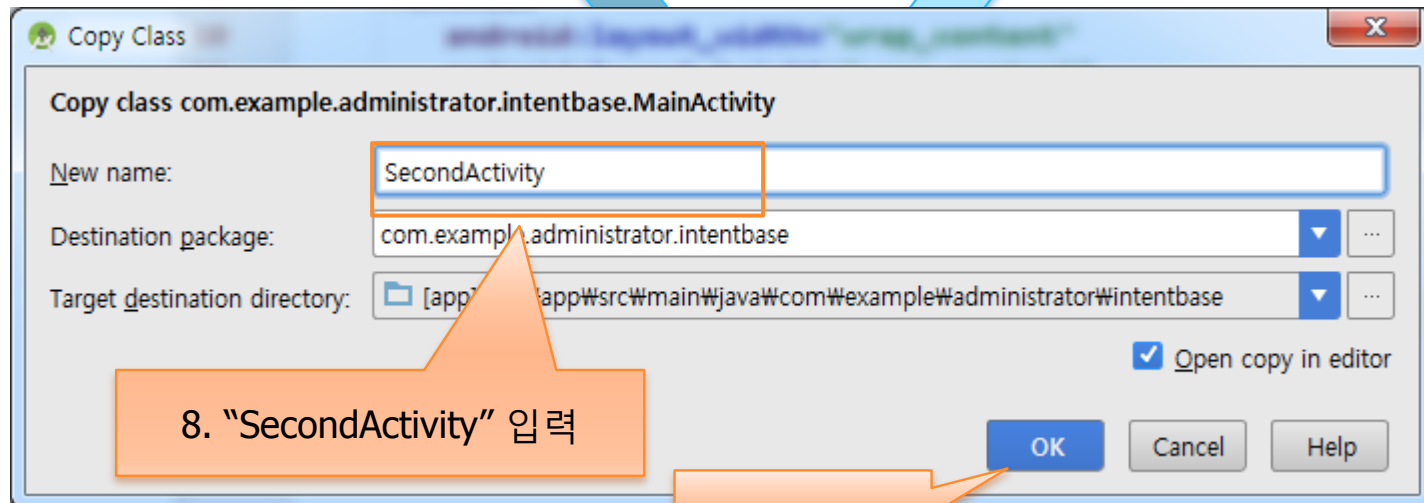
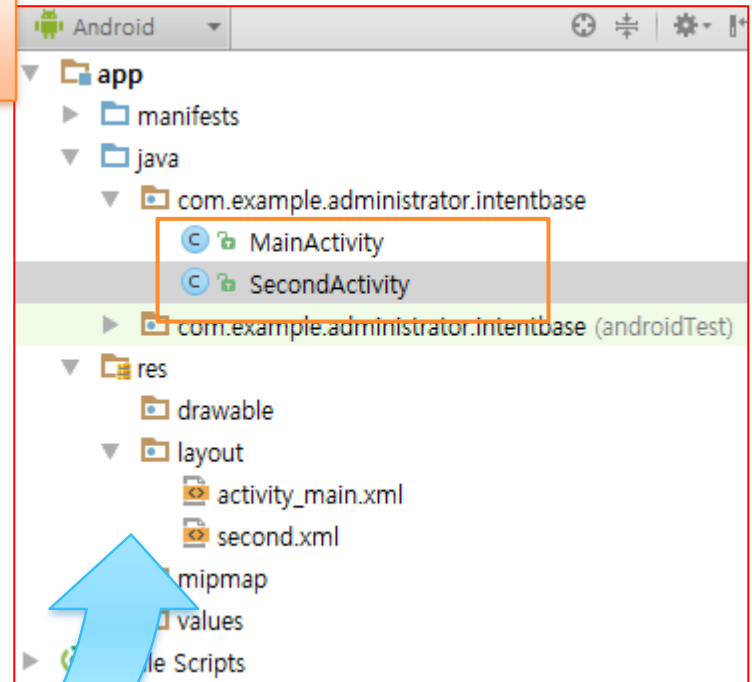
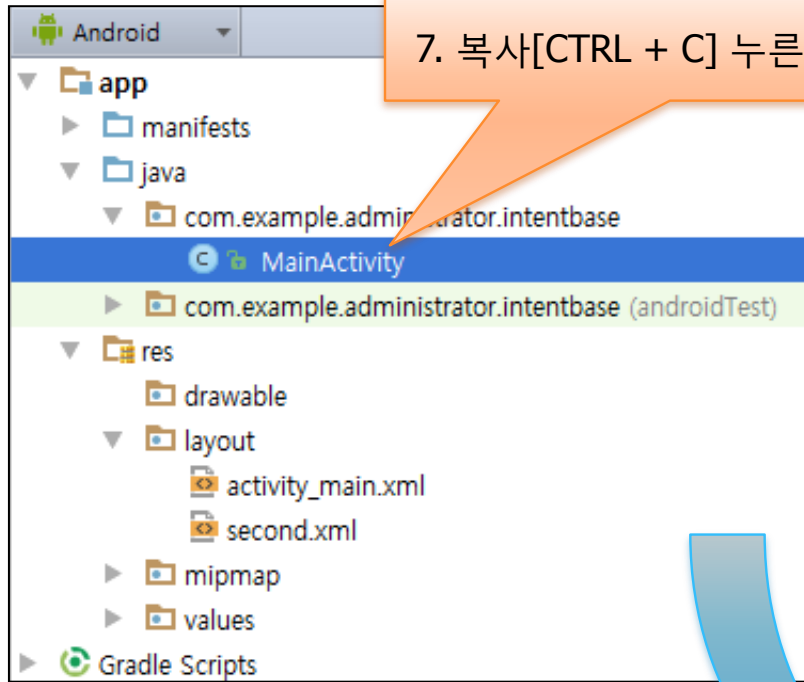
```
1  <?xml version="1.0" encoding="utf-8"?>
2  <LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
3      android:layout_width="match_parent"
4      android:layout_height="match_parent"
5      android:background="#FFF00F"
6      android:gravity="center"
7      android:orientation="vertical">
8
9      <TextView
10         android:layout_width="wrap_content"
11         android:layout_height="wrap_content"
12         android:text="여기는 두번째 액티비티 페이지 입니다." />
13 </LinearLayout>
```



액티비티 파일 생성(복사하여 수정)

8

7. 복사[CTRL + C] 누른 후 CTRL + V]



8. "SecondActivity" 입력

9. 클릭

C MainActivity.java x

```
1  package com.example.administrator.intentbase;
2
3  import ...
4
5
6
7
8
9  public class MainActivity extends AppCompatActivity {
10
11      Button btnNewActivity;
12
13      @Override
14      protected void onCreate(Bundle savedInstanceState) {
15          super.onCreate(savedInstanceState);
16          setContentView(R.layout.activity_main);
17          setTitle("첫번째 액티비티");
18
19          btnNewActivity = (Button)findViewById(R.id.button);
20
21          btnNewActivity.setOnClickListener(new View.OnClickListener() {
22              @Override
23              public void onClick(View v) {
24                  Intent intent = new Intent(MainActivity.this,
25                      SecondActivity.class);
26                  startActivity(intent);
27              }
28          });
29      }
30  }
```

10. 코딩

```
SecondActivity.java x
1  package com.example.administrator.intentbase;
2
3  import android.os.Bundle;
4  import android.support.v7.app.AppCompatActivity;
5
6  public class SecondActivity extends AppCompatActivity {
7
8      @Override
9      protected void onCreate(Bundle savedInstanceState) {
10         super.onCreate(savedInstanceState);
11         setContentView(R.layout.second);
12         setTitle("두번째 액티비티");
13     }
14 }
```

11. 코딩



```
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    package="com.example.administrator.intentbase">

    <application
        android:allowBackup="true"
        android:icon="@mipmap/ic_launcher"
        android:label="IntentBase"
        android:supportsRtl="true"
        android:theme="@style/AppTheme">
        <activity android:name=".MainActivity">
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />

                <category android:name="android.intent.category.LAUNCHER" />
            </intent-filter>
        </activity>

        <activity android:name=".SecondActivity" />

    </application>

</manifest>
```

12. 추가

✓ 사용될 액티비티는 AndroidManifest.xml에 꼭 등록해야 한다.



```
second.xml x
1  <?xml version="1.0" encoding="utf-8"?>
2  <LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
3      android:layout_width="match_parent"
4      android:layout_height="match_parent"
5      android:background="#FFF00F"
6      android:gravity="center"
7      android:orientation="vertical">
8
9      <TextView
10         android:layout_width="wrap_content"
11         android:layout_height="wrap_content"
12         android:text="여기는 두번째 액티비티 페이지 입니다." />
13
14         <Button
15             android:id="@+id/Backbtn"
16             android:layout_width="wrap_content"
17             android:layout_height="wrap_content"
18             android:text="돌아가기"/>
19     </LinearLayout>
```

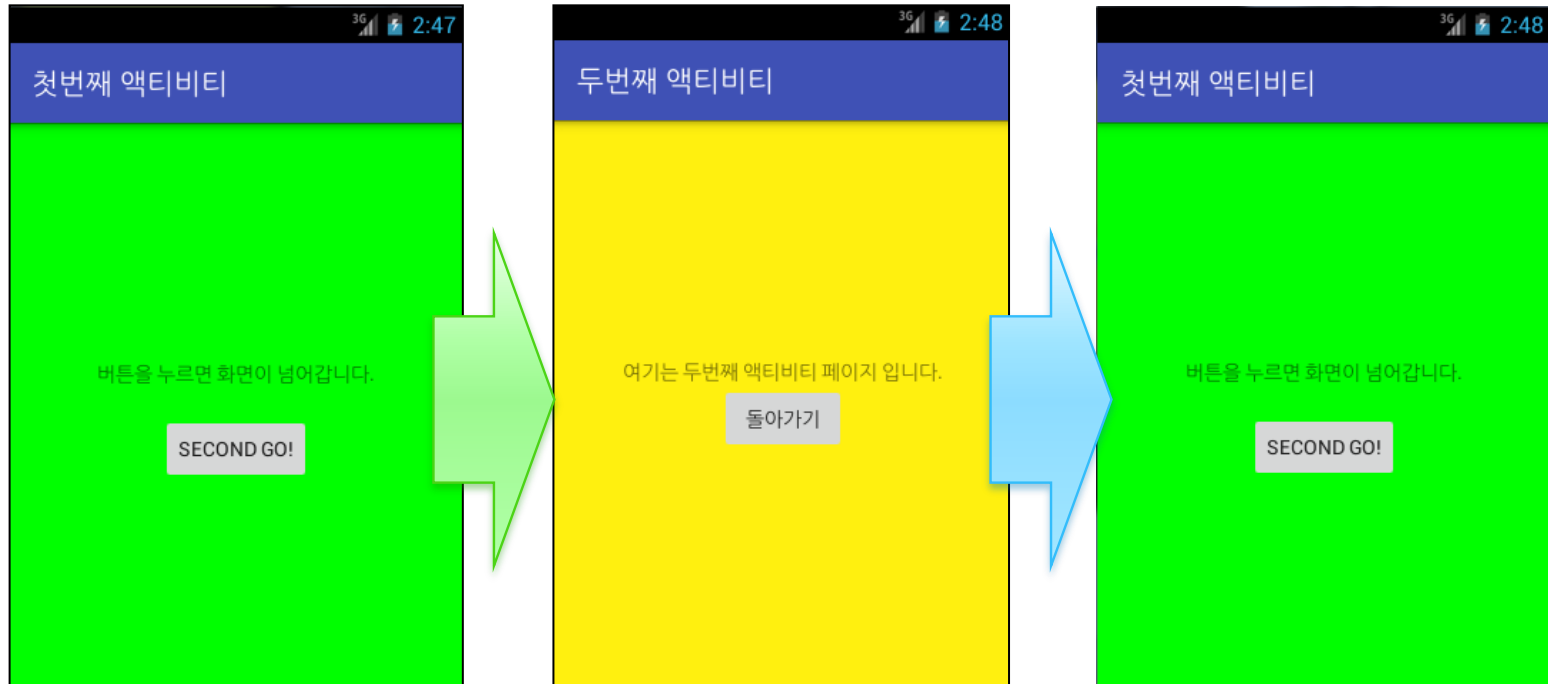
13. 버튼 추가



```
SecondActivity.java x
1  package com.example.administrator.intentbase;
2
3  import ...
7
8  public class SecondActivity extends AppCompatActivity {
9
10     Button backbtn;
11
12     @Override
13     protected void onCreate(Bundle savedInstanceState) {
14         super.onCreate(savedInstanceState);
15         setContentView(R.layout.second);
16         setTitle("두번째 액티비티");
17
18         backbtn = (Button)findViewById(R.id.Backbtn);
19
20         backbtn.setOnClickListener(new View.OnClickListener() {
21             @Override
22             public void onClick(View v) {
23                 finish();
24             }
25         });
26     }
27 }
```

14. 추가

현재 액티비티를 종료



```
second.xml x
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="#FFF00F"
    android:gravity="center"
    android:orientation="vertical">

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="여기는 두번째 액티비티 페이지 입니다." />

    <Button
        android:id="@+id/Backbtn"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="MainActivity Go!"/>

</LinearLayout>
```

15. 수정


```
SecondActivity.java x
1  package com.example.administrator.intentbase;
2
3  import ...
4
5
6
7
8
9  public class SecondActivity extends AppCompatActivity {
10
11      Button backbtn;
12
13      @Override
14      protected void onCreate(Bundle savedInstanceState) {
15          super.onCreate(savedInstanceState);
16          setContentView(R.layout.second);
17          setTitle("두번째 액티비티");
18
19          backbtn = (Button)findViewById(R.id.Backbtn);
20
21          backbtn.setOnClickListener(new View.OnClickListener() {
22              @Override
23              public void onClick(View v) {
24                  Intent intent = new Intent(SecondActivity.this,
25                      MainActivity.class);
26                  startActivity(intent);
27              }
28          });
29      }
30  }
```

16. 수정



액티비티와 인텐트- 선택 화면전환



Application name: **SelectIntent**

Company Domain: **admid.example.com**

Project location: **C:\Android\StdWork\SelectIntent**

Target Android Devices

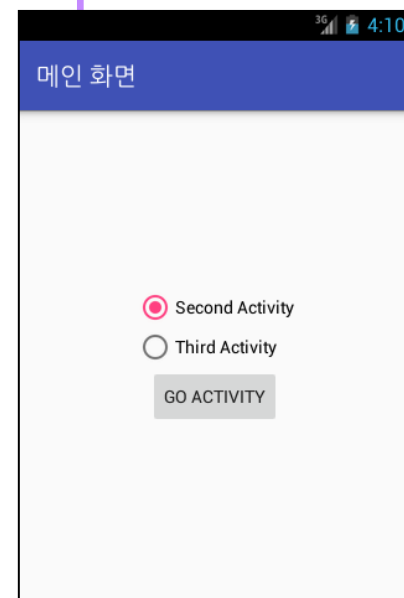
- **Phone and Tabet**
- **Minimun SDK API 15 : Android 4.0.3**

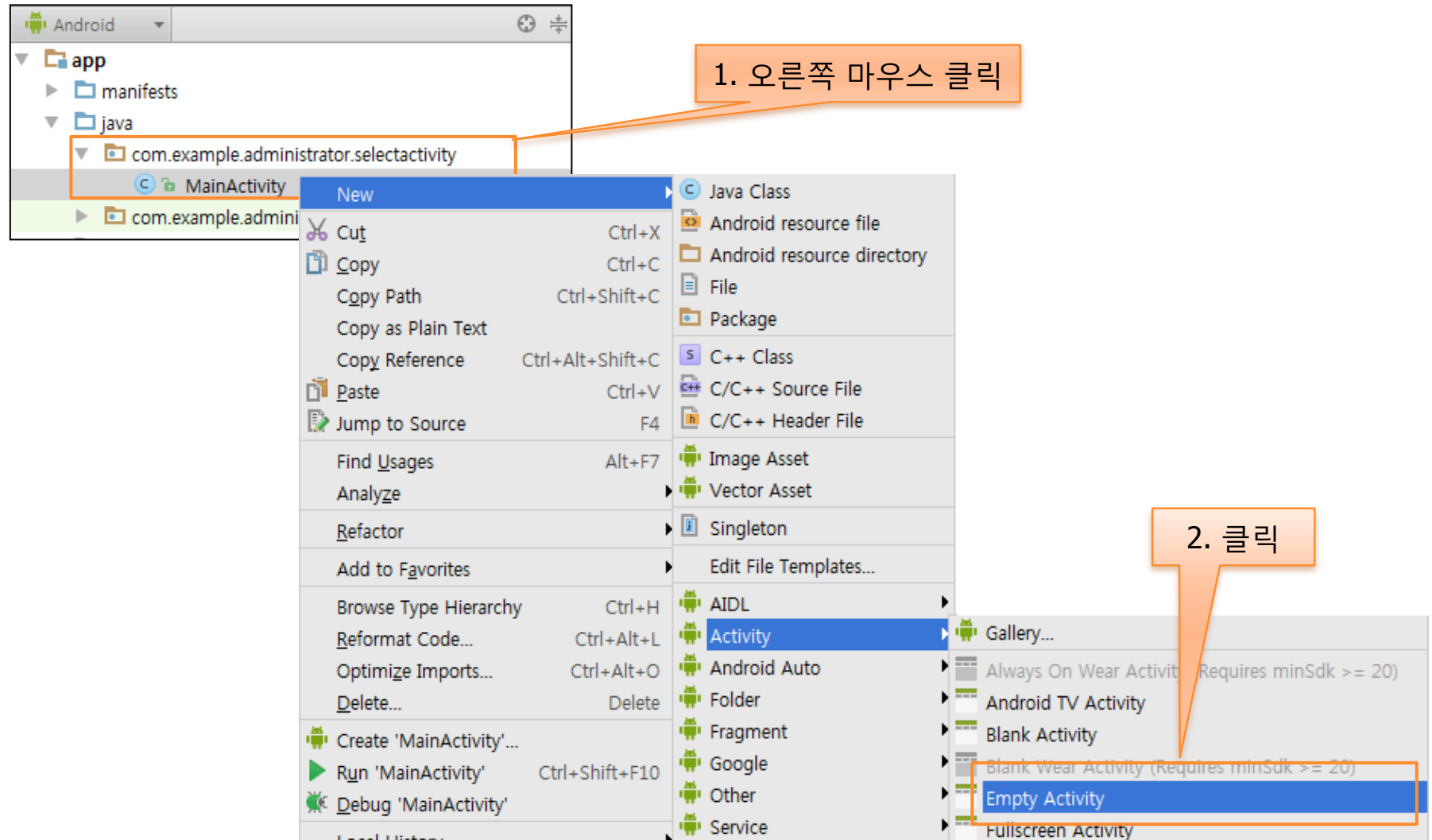
Add an activity to Mobile : **Empty Activity**

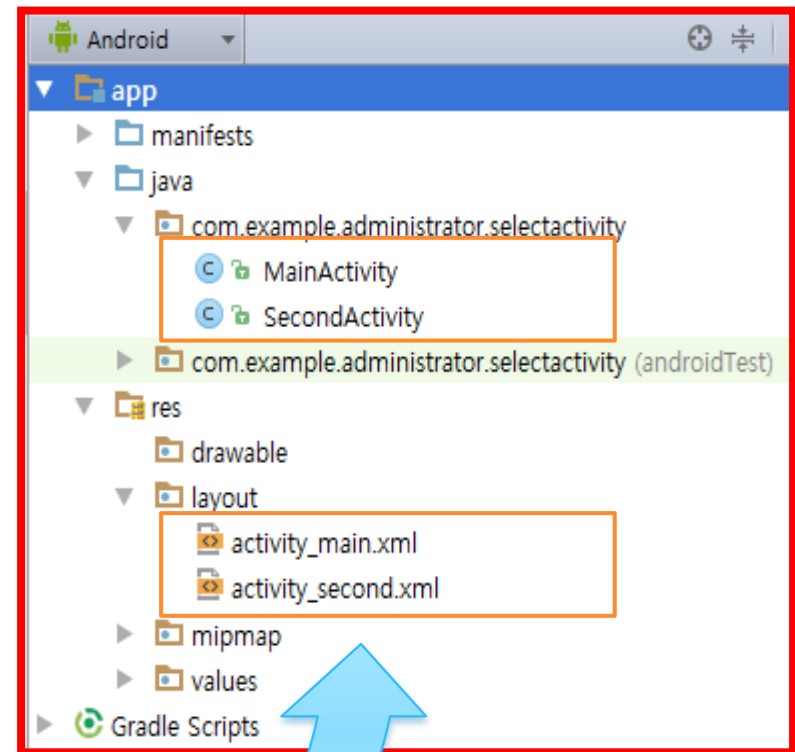
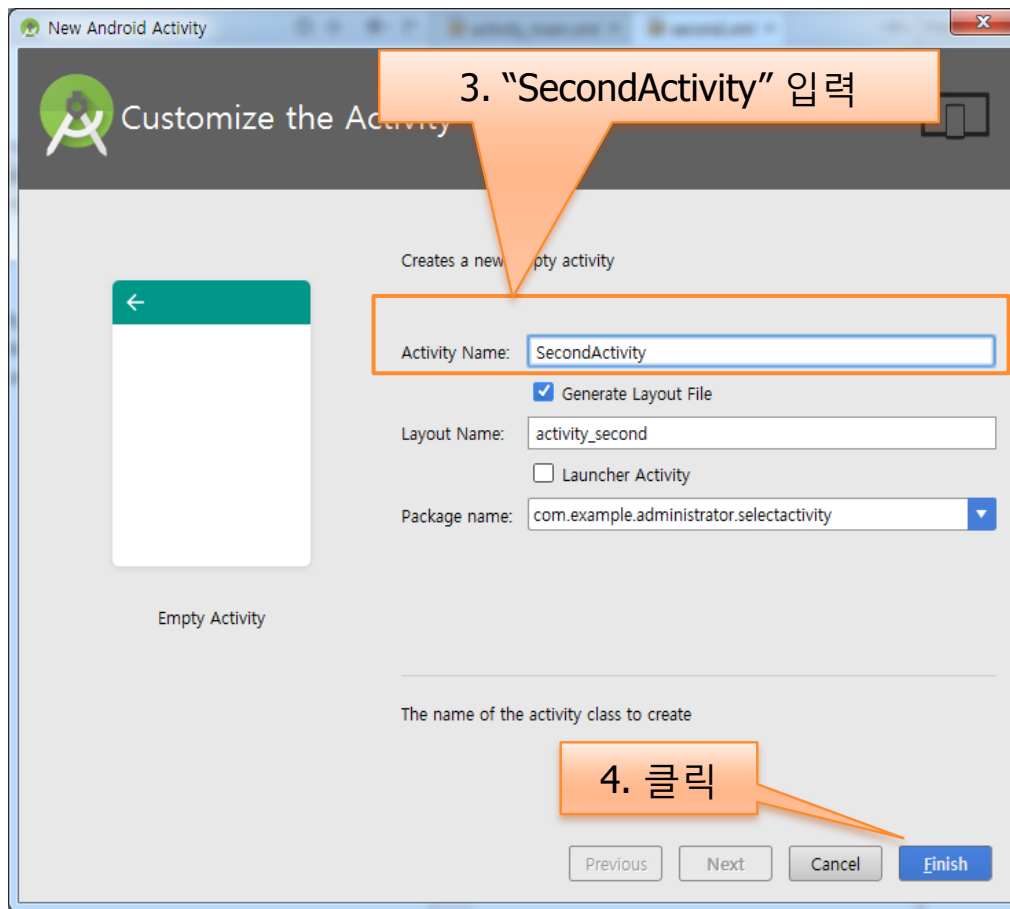
Customize the Activity

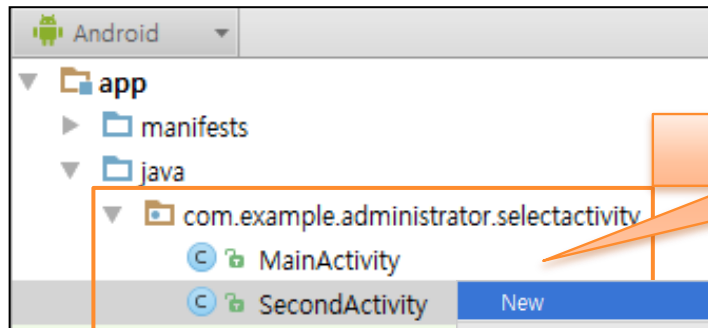
Activity Name: **MainActivity**

Layout Name: **activity_main**

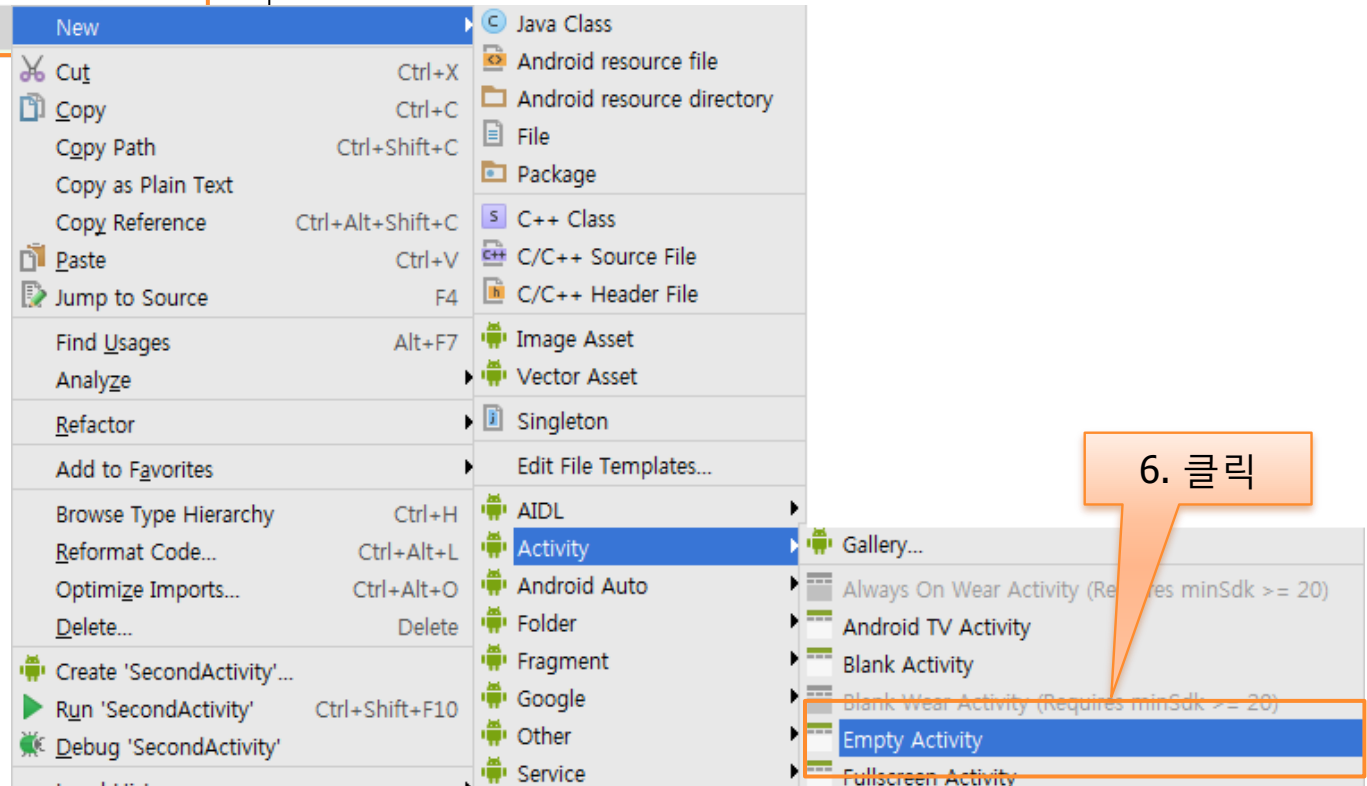




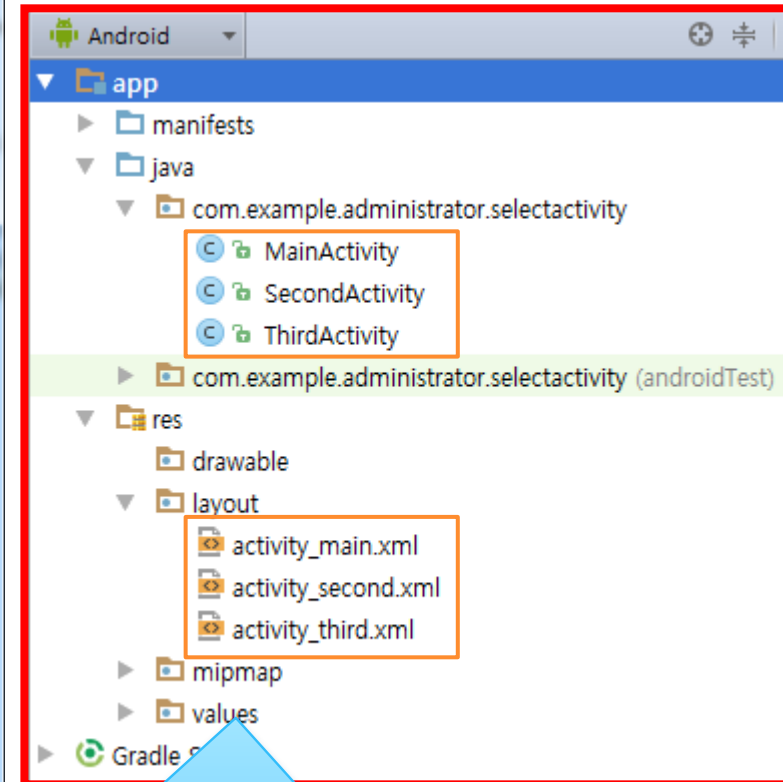
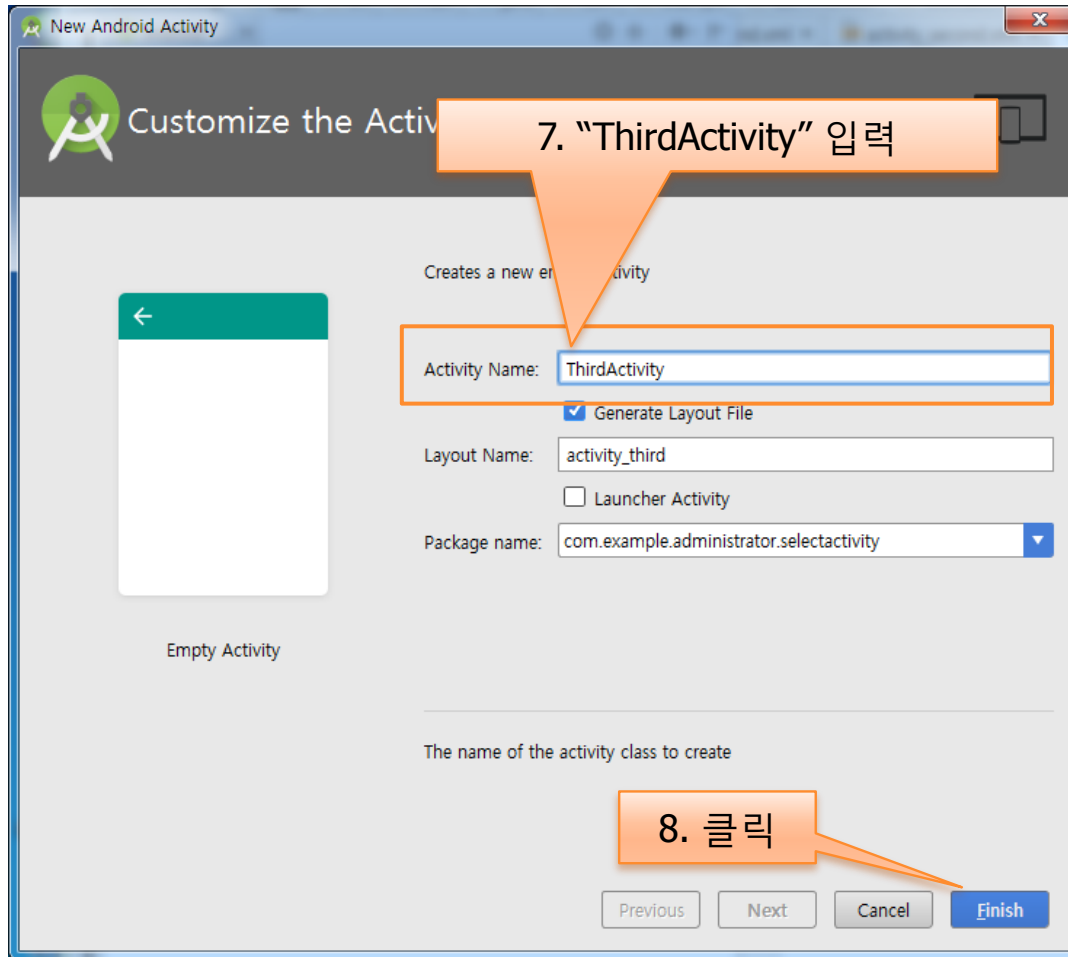




5. 오른쪽 마우스 클릭



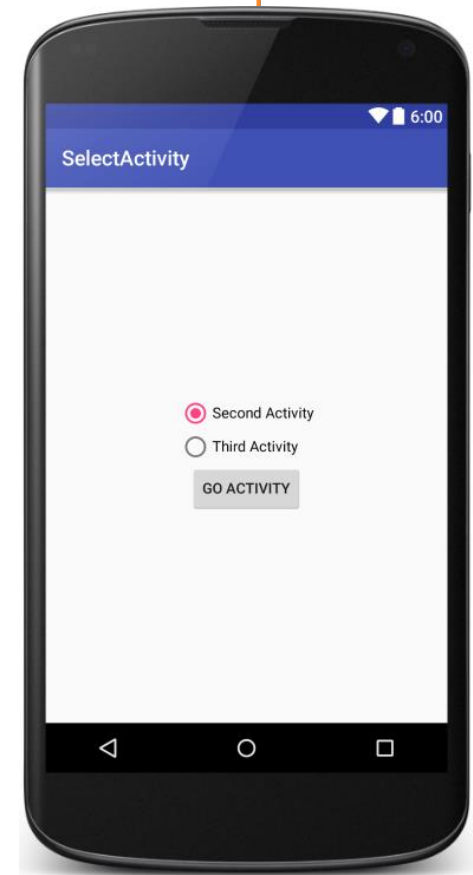
6. 클릭



activity_main.xml x

```
1  <?xml version="1.0" encoding="utf-8"?>
2  <LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
3      android:layout_width="match_parent"
4      android:layout_height="match_parent"
5      android:gravity="center"
6      android:orientation="vertical">
7      <RadioGroup
8          android:id="@+id/radioGroup"
9          android:layout_width="wrap_content"
10         android:layout_height="wrap_content"
11         android:text="Hello World!">
12         <RadioButton
13             android:id="@+id/radioSecond"
14             android:layout_width="wrap_content"
15             android:layout_height="wrap_content"
16             android:checked="true"
17             android:text="Second Activity" />
18         <RadioButton
19             android:id="@+id/radioThird"
20             android:layout_width="wrap_content"
21             android:layout_height="wrap_content"
22             android:text="Third Activity" />
23     </RadioGroup>
24     <Button
25         android:id="@+id/btn"
26         android:layout_width="wrap_content"
27         android:layout_height="wrap_content"
28         android:text="GO Activity" />
29 </LinearLayout>
```

9. 코딩




```
activity_second.xml x
1  <?xml version="1.0" encoding="utf-8"?>
2  <LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
3      android:layout_width="match_parent"
4      android:layout_height="match_parent"
5      android:gravity="center"
6      android:orientation="vertical">
7
8      <TextView
9          android:layout_width="wrap_content"
10         android:layout_height="wrap_content"
11         android:text="Second Activity 입니다." />
12
13     <Button
14         android:id="@+id/secondbtn"
15         android:layout_width="wrap_content"
16         android:layout_height="wrap_content"
17         android:text="back first" />
18 </LinearLayout>
```



11. 코딩

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

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Third Activity 입니다." />

    <Button
        android:id="@+id/thirdbtn"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="back first" />
</LinearLayout>
```



12. 코딩

```
1  package com.example.administrator.selectactivity;
2
3  import ...
9
10 public class MainActivity extends AppCompatActivity {
11
12     RadioButton radioBtnSecond;
13     Button btnFirst;
14     Intent intent;
15
16     @Override
17     protected void onCreate(Bundle savedInstanceState) {
18         super.onCreate(savedInstanceState);
19         setContentView(R.layout.activity_main);
20
21         setTitle("메인 화면");
```

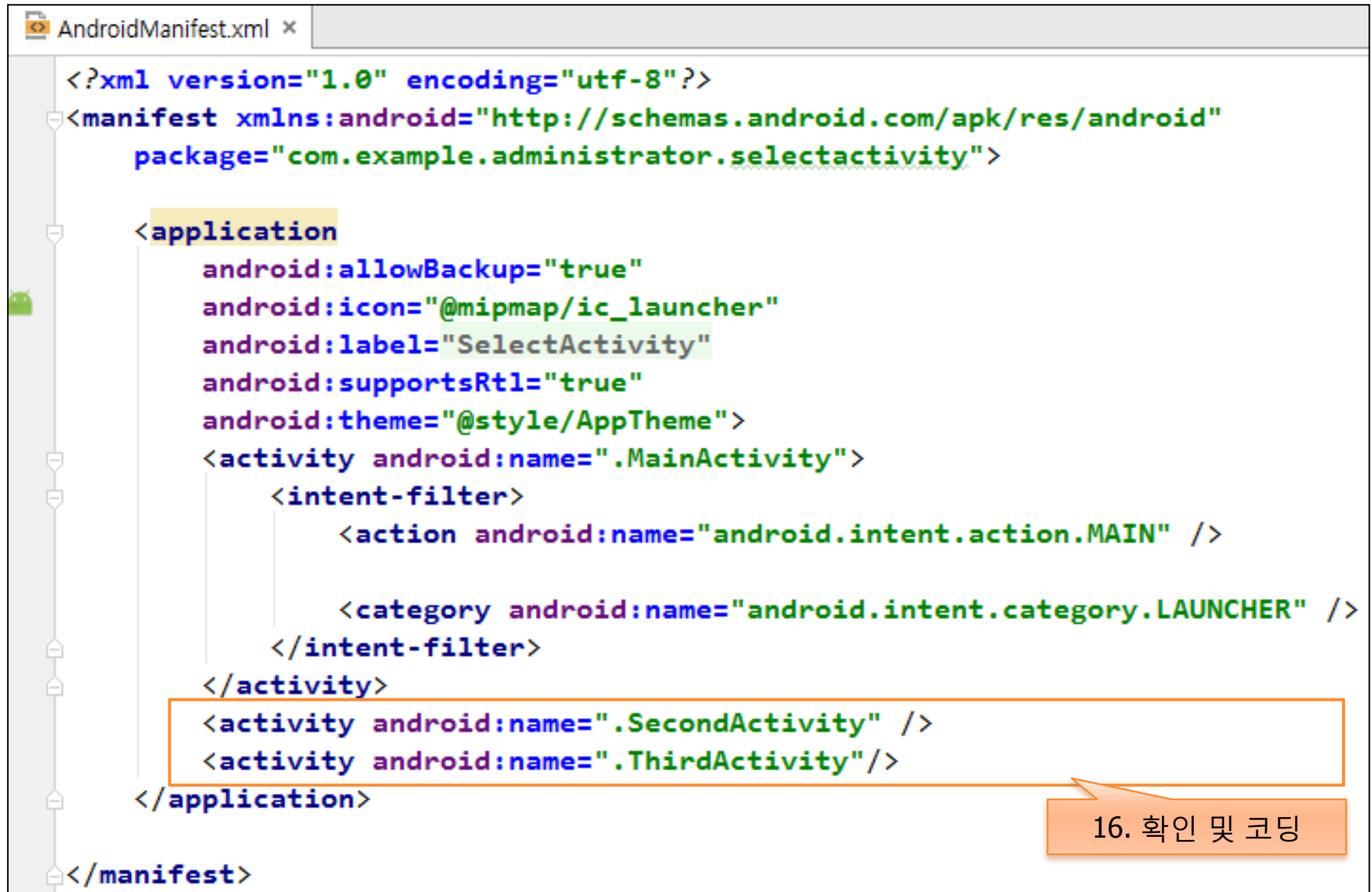
13. 코딩

```
MainActivity.java x

20
21 setTitle("메인 화면");
22 btnFirst = (Button) findViewById(R.id.btn);
23 radioBtnSecond = (RadioButton) findViewById(R.id.radioSecond);
24
25 btnFirst.setOnClickListener(new View.OnClickListener() {
26     @Override
27     public void onClick(View v) {
28
29         if (radioBtnSecond.isChecked())
30             intent = new Intent(getApplicationContext(),
31                                     SecondActivity.class);
32         else
33             intent = new Intent(getApplicationContext(),
34                                     ThirdActivity.class);
35         startActivity(intent);
36     }
37 });
38 }
39 }
```

```
SecondActivity.java x
1  package com.example.administrator.selectactivity;
2
3  import ...
7
8  public class SecondActivity extends AppCompatActivity {
9
10     Button btnSecond;
11
12     @Override
13     protected void onCreate(Bundle savedInstanceState) {
14         super.onCreate(savedInstanceState);
15         setContentView(R.layout.activity_second);
16
17         setTitle("Second 화면");
18         btnSecond = (Button)findViewById(R.id.secondbtn);
19
20         btnSecond.setOnClickListener(new View.OnClickListener() {
21             @Override
22             public void onClick(View v) {
23                 finish();
24             }
25         });
26     }
27 }
```

```
ThirdActivity.java x
1  package com.example.administrator.selectactivity;
2
3  import ...
7
8  public class ThirdActivity extends AppCompatActivity {
9
10     Button btnThird;
11
12     @Override
13     protected void onCreate(Bundle savedInstanceState) {
14         super.onCreate(savedInstanceState);
15         setContentView(R.layout.activity_third);
16
17         setTitle("Third 화면");
18
19         btnThird = (Button)findViewById(R.id.thirdbtn);
20
21         btnThird.setOnClickListener(new View.OnClickListener() {
22             @Override
23             public void onClick(View v) {
24                 finish();
25             }
26         });
27     }
28 }
```



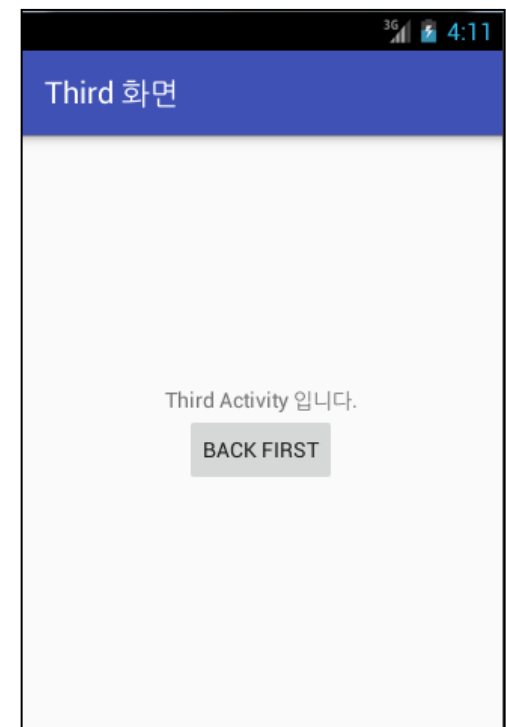
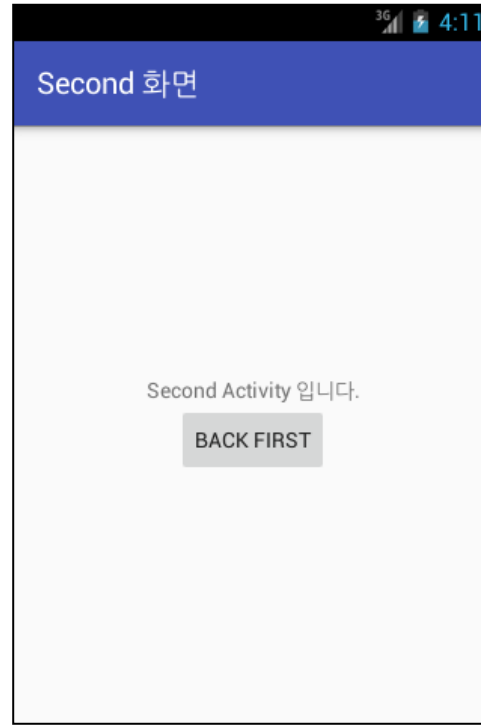
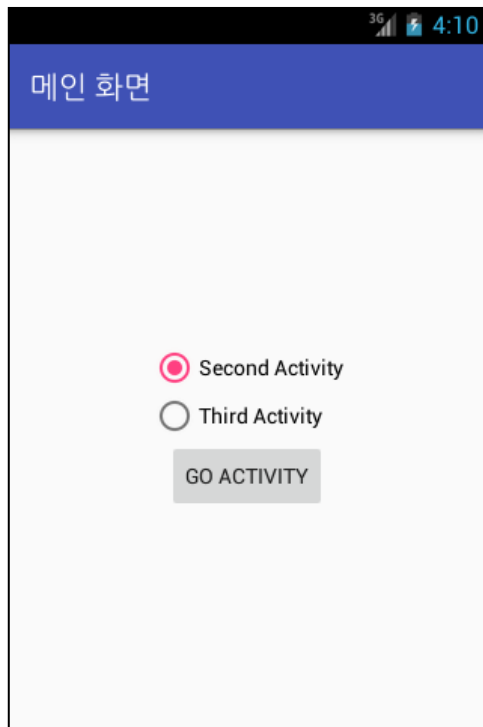
```
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    package="com.example.administrator.selectactivity">

    <application
        android:allowBackup="true"
        android:icon="@mipmap/ic_launcher"
        android:label="SelectActivity"
        android:supportsRtl="true"
        android:theme="@style/AppTheme">
        <activity android:name=".MainActivity">
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />

                <category android:name="android.intent.category.LAUNCHER" />
            </intent-filter>
        </activity>
        <activity android:name=".SecondActivity" />
        <activity android:name=".ThirdActivity"/>
    </application>

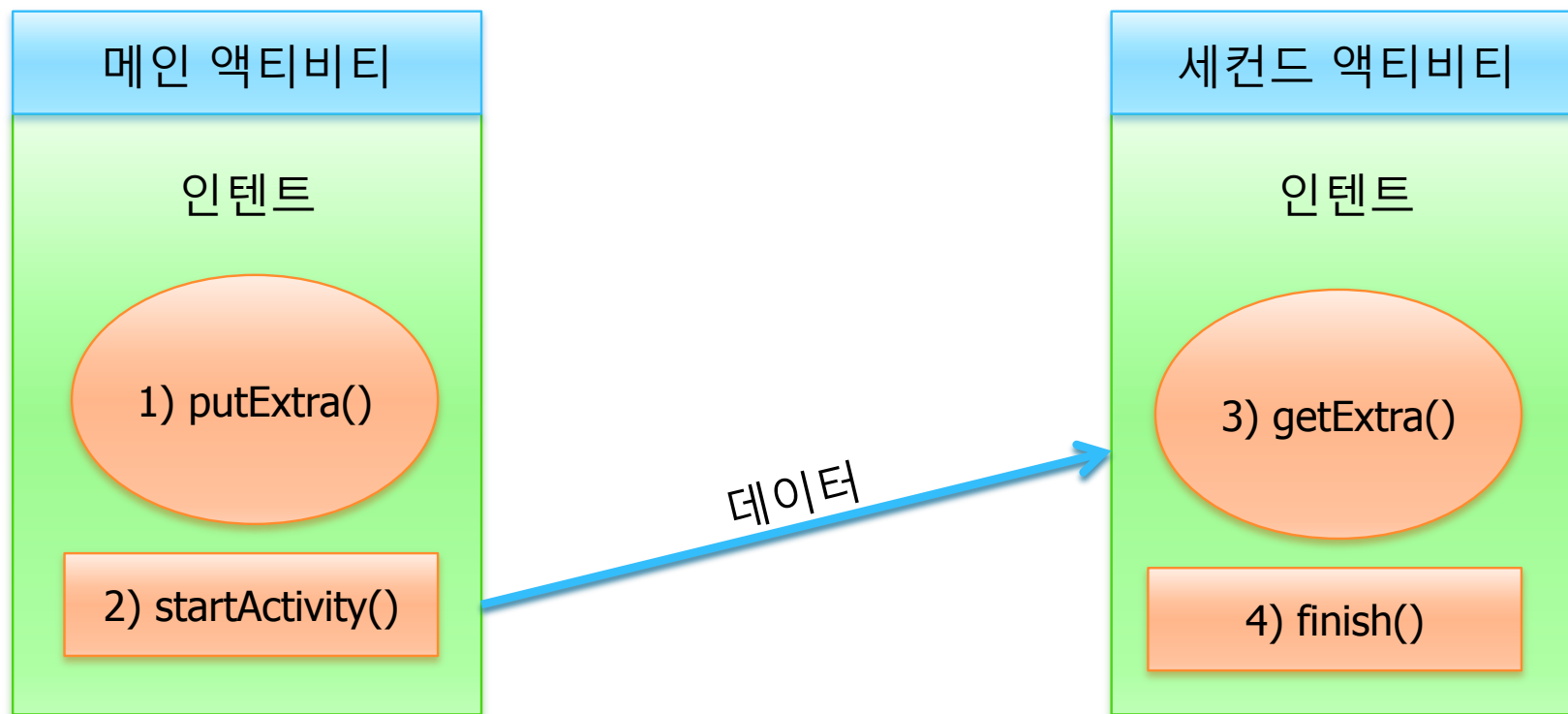
</manifest>
```

16. 확인 및 코딩



Activity Data 전송 - 하나

- 메인 액티비티에서 세컨드 액티비티로 데이터 전송 방식 (**단방향**)



프로젝트 생성

34



Application name: **DatasendIntent**

Company Domain: **admid.example.com**

Project location: **C:\Android\StdWork\DatasendIntent**

Target Android Devices

- **Phone and Tabet**
- **Minimun SDK API 15 : Android 4.0.3**

Add an activity to Mobile : **Empty Activity**

Customize the Activity

Activity Name: **MainActivity**

Layout Name: **activity_main**

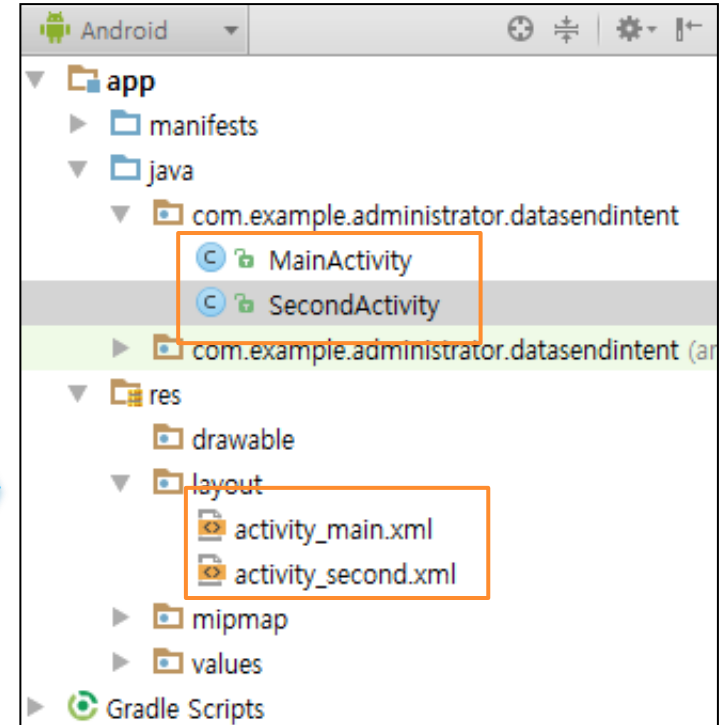
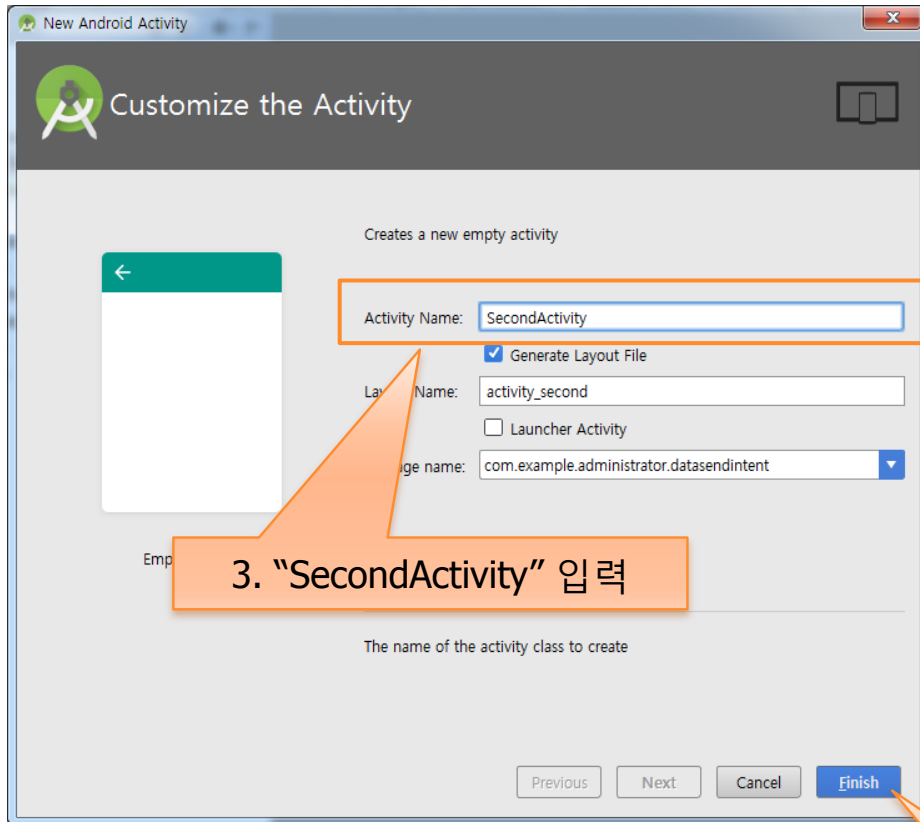


1. 오른쪽 마우스 클릭

2. 클릭

The screenshot shows the Android Studio interface. In the Project Explorer on the left, the package `com.example.adminis` is selected. A right-click context menu is open over this package. The 'New' option is selected, opening a submenu. In this submenu, the 'Activity' option is selected, opening another submenu. In this final submenu, the 'Empty Activity' option is highlighted. Two orange callout boxes provide instructions: '1. 오른쪽 마우스 클릭' (Right-click) and '2. 클릭' (Click).

secondActivity 추가



```
activity_main.xml x
1  <?xml version="1.0" encoding="utf-8"?>
2  <LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
3      android:layout_width="match_parent"
4      android:layout_height="match_parent"
5      android:gravity="center"
6      android:orientation="vertical">
7      <TextView
8          android:layout_width="wrap_content"
9          android:layout_height="wrap_content"
10         android:textSize="20dp"
11         android:text="두 수의 합 구하기!" />
12     <LinearLayout
13         android:layout_width="match_parent"
14         android:layout_height="wrap_content"
15         android:orientation="horizontal">
16         <TextView
17             android:layout_width="wrap_content"
18             android:layout_height="wrap_content"
19             android:text="첫 번째 숫자 : " />
20         <EditText
21             android:id="@+id/edtFirst"
22             android:layout_width="match_parent"
23             android:layout_height="wrap_content"
24             android:hint="숫자 입력" />
25     </LinearLayout>
```

5. 코딩



6. 코딩

```
26
27 <LinearLayout
28     android:layout_width="match_parent"
29     android:layout_height="wrap_content"
30     android:orientation="horizontal">
31     <TextView
32         android:layout_width="wrap_content"
33         android:layout_height="wrap_content"
34         android:text="두 번째 숫자 : " />
35     <EditText
36         android:id="@+id/edtSecond"
37         android:layout_width="match_parent"
38         android:layout_height="wrap_content"
39         android:hint="숫자 입력" />
40 </LinearLayout>
41 <Button
42     android:id="@+id/hapbtn"
43     android:layout_width="wrap_content"
44     android:layout_height="wrap_content"
45     android:text="합 구하기" />
46 </LinearLayout>
```



7. 코딩

```
1  <?xml version="1.0" encoding="utf-8"?>
2  <LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
3      android:layout_width="match_parent"
4      android:layout_height="match_parent"
5      android:gravity="center"
6      android:orientation="vertical">
7
8      <TextView
9          android:layout_width="wrap_content"
10         android:layout_height="wrap_content"
11         android:text="입력된 수의 합은" />
12
13     <TextView
14         android:id="@+id/resultText"
15         android:layout_width="wrap_content"
16         android:layout_height="wrap_content"
17         android:text="Null" />
18
19     <Button
20         android:layout_width="wrap_content"
21         android:layout_height="wrap_content"
22         android:id="@+id/finishBtn"
23         android:layout_marginTop="20dp"
24         android:text="Finish"/>
25 </LinearLayout>
```



```
MainActivity.java x
1 package com.example.administrator.datasendintent;
2
3 import android.content.Intent;
4 import android.os.Bundle;
5 import android.support.v7.app.AppCompatActivity;
6 import android.view.View;
7 import android.widget.Button;
8 import android.widget.EditText;
9
```

```
MainActivity.java x
9
10 public class MainActivity extends AppCompatActivity {
11
12     EditText editTextFirst, editTextSecond;
13     Button hapBtn;
14
15     @Override
16     protected void onCreate(Bundle savedInstanceState) {
17         super.onCreate(savedInstanceState);
18         setContentView(R.layout.activity_main);
19
20         setTitle("두 수를 입력하는 액티비티");
21
```

8. 코딩


```
19 setTitle("두 수를 입력하는 액티비티");
20
21
22 editTextFirst = (EditText) findViewById(R.id.edtFirst);
23 editTextSecond = (EditText) findViewById(R.id.edtSecond);
24 hapBtn = (Button) findViewById(R.id.hapbtn);
25
26 editTextFirst.setText("0");
27 editTextSecond.setText("0");
28
29 hapBtn.setOnClickListener(new View.OnClickListener() {
30     @Override
31     public void onClick(View v) {
32         Intent intent = new Intent(getApplicationContext(),
33             SecondActivity.class);
34         intent.putExtra("Num1", editTextFirst.getText().toString());
35         intent.putExtra("Num2", editTextSecond.getText().toString());
36         startActivity(intent);
37     }
38 });
39
40 }
```

```
SecondActivity.java x
1 package com.example.administrator.datasendintent;
2
3 import android.content.Intent;
4 import android.os.Bundle;
5 import android.support.v7.app.AppCompatActivity;
6 import android.view.View;
7 import android.widget.Button;
8 import android.widget.TextView;
9
```

```
SecondActivity.java x
9
10 public class SecondActivity extends AppCompatActivity {
11
12     Button finishBtn;
13     TextView resultText;
14
15     int hap;
16
17     @Override
```

10. 코딩

SecondActivity.java x

11. 코딩

```
17  @Override
18  protected void onCreate(Bundle savedInstanceState) {
19      super.onCreate(savedInstanceState);
20      setContentView(R.layout.activity_second);
21
22      setTitle("결과 화면");
23
24      finishBtn = (Button)findViewById(R.id.finishBtn);
25      resultText = (TextView)findViewById(R.id.resultText);
26
27      Intent inIntent = getIntent();
28      String FirstText = inIntent.getStringExtra("Num1");
29      String SecondText = inIntent.getStringExtra("Num2");
30
31      hap = Integer.parseInt(FirstText) + Integer.parseInt(SecondText);
32      resultText.setText(String.valueOf(hap));
33
34      finishBtn.setOnClickListener(new View.OnClickListener() {
35          @Override
36          public void onClick(View v) {
37              finish();
38          }
39      });
40  }
41  }
```

"Num1","Num2"
메인 액티비티에
서 넘어온 데이터

```
AndroidManifest.xml x
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    package="com.example.administrator.datasendintent">

    <application
        android:allowBackup="true"
        android:icon="@mipmap/ic_launcher"
        android:label="DdatasendIntent"
        android:supportsRtl="true"
        android:theme="@style/AppTheme">
        <activity android:name=".MainActivity">
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />

                <category android:name="android.intent.category.LAUNCHER" />
            </intent-filter>
        </activity>
        <activity android:name=".SecondActivity"></activity>
    </application>

</manifest>
```

추가 확인

3G 1:59

두 수를 입력하는 액티비티

두 수의 합 구하기!

첫 번째 숫자: 5

두 번째 숫자: 20

합구하기

3G 2:00

결과 화면

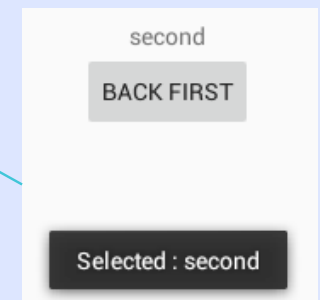
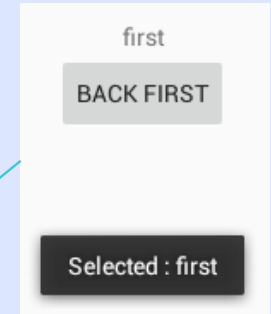
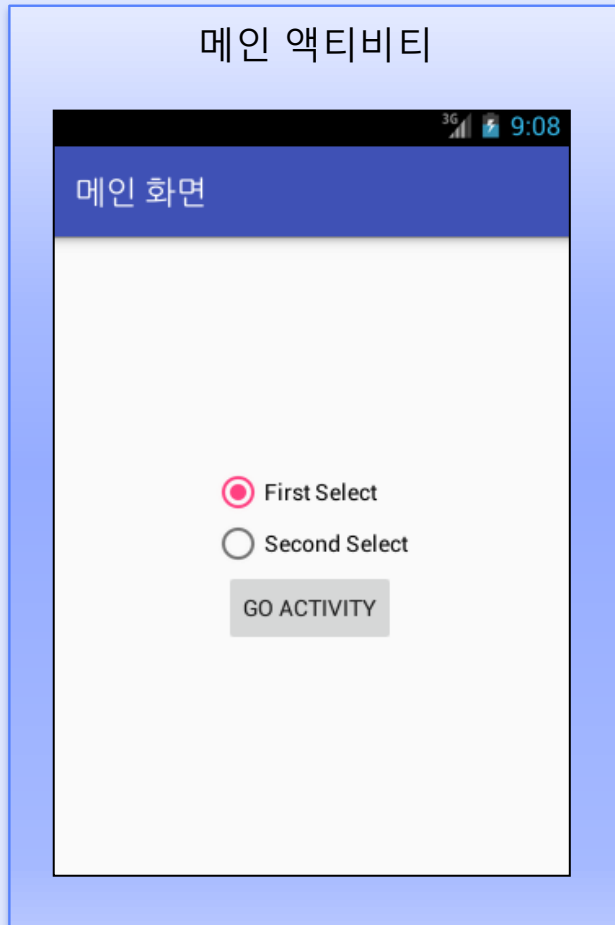
입력된 수의 합은
25

FINISH

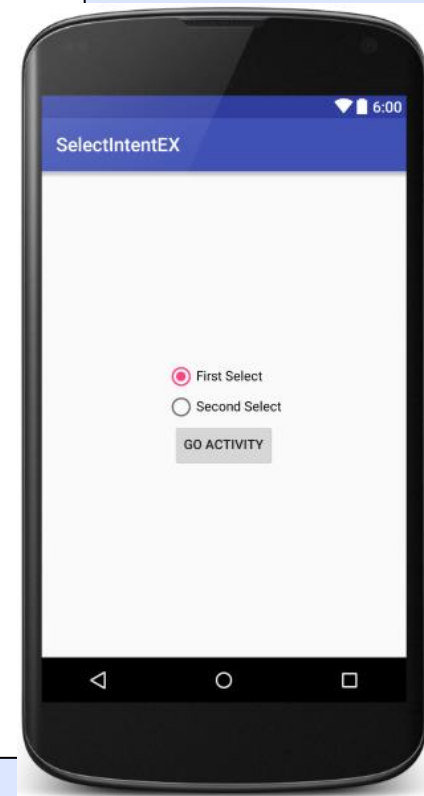
연습 문제



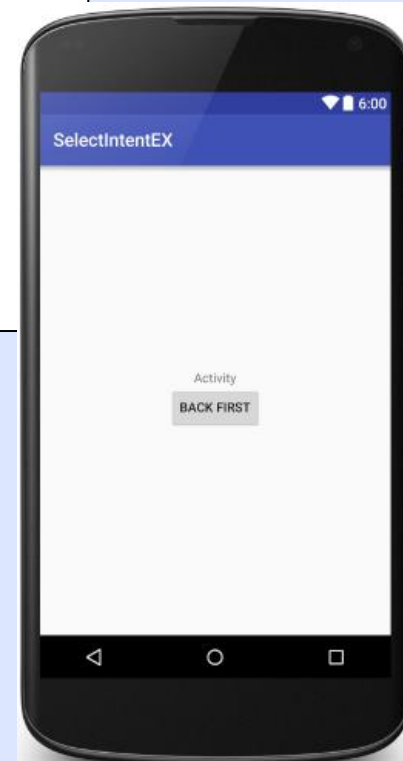
프로젝트 명: SelectIntentEx



```
activity_main.xml x
1  <?xml version="1.0" encoding="utf-8"?>
2  <LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
3      android:layout_width="match_parent"
4      android:layout_height="match_parent"
5      android:gravity="center"
6      android:orientation="vertical">
7      <RadioGroup
8          android:id="@+id/radioGroup"
9          android:layout_width="wrap_content"
10         android:layout_height="wrap_content"
11         android:text="Hello World!">
12         <RadioButton
13             android:id="@+id/radioSecond"
14             android:layout_width="wrap_content"
15             android:layout_height="wrap_content"
16             android:checked="true"
17             android:text="First Select" />
18         <RadioButton
19             android:id="@+id/radioThird"
20             android:layout_width="wrap_content"
21             android:layout_height="wrap_content"
22             android:text="Second Select" />
23     </RadioGroup>
24     <Button
25         android:id="@+id/btn"
26         android:layout_width="wrap_content"
27         android:layout_height="wrap_content"
28         android:text="GO Activity" />
29 </LinearLayout>
```





```
activity_second.xml x
1  <?xml version="1.0" encoding="utf-8"?>
2  <LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
3      android:layout_width="match_parent"
4      android:layout_height="match_parent"
5      android:gravity="center"
6      android:orientation="vertical">
7
8      <TextView
9          android:id="@+id/txtview"
10         android:layout_width="wrap_content"
11         android:layout_height="wrap_content"
12         android:text="Activity" />
13
14     <Button
15         android:id="@+id/secondbtn"
16         android:layout_width="wrap_content"
17         android:layout_height="wrap_content"
18         android:text="back first" />
19 </LinearLayout>
```



```
1 package com.example.admin.selectintentex;
2
3 import ...
9
10 public class MainActivity extends AppCompatActivity {
11
12     RadioButton radioBtnSecond;
13     Button btnFirst;
14     Intent intent;
15
16     @Override
17     protected void onCreate(Bundle savedInstanceState) {
18         super.onCreate(savedInstanceState);
19         setContentView(R.layout.activity_main);
20
21         setTitle("메인 화면");
22         btnFirst = (Button) findViewById(R.id.btn);
23         radioBtnSecond = (RadioButton) findViewById(R.id.radioSecond);
24
25         btnFirst.setOnClickListener(new View.OnClickListener() {
26             @Override
27             public void onClick(View v) {
28
29                 intent = new Intent(getApplicationContext(),
30                     SecondActivity.class);
31
32                 if (radioBtnSecond.isChecked()) {
33                     intent.putExtra("Check", "first");
34                 }
35                 else {
36                     intent.putExtra("Check", "second");
37                 }
38                 startActivity(intent);
39             }
40         });
41     }
42 }
```

```
1 package com.example.admin.selectintentex;
2
3 import ...
4
10
11 public class SecondActivity extends AppCompatActivity {
12
13     @Override
14     protected void onCreate(Bundle savedInstanceState) {
15         super.onCreate(savedInstanceState);
16         setContentView(R.layout.activity_second);
17
18         setTitle("선택한 옵션");
19
20         TextView textView = (TextView) findViewById(R.id.txtview);
21         Button SelectBtn = (Button) findViewById(R.id.secondbtn);
22
23         Intent inIntent = getIntent();
24         String SelectData = inIntent.getStringExtra("Check");
25
26         textView.setText(SelectData);
27
28         Toast.makeText(getApplicationContext(),
29             "Selected : " + SelectData, Toast.LENGTH_SHORT).show();
30
31         SelectBtn.setOnClickListener(new View.OnClickListener() {
32             @Override
33             public void onClick(View v) {
34                 finish();
35             }
36         });
37     }
38 }
```

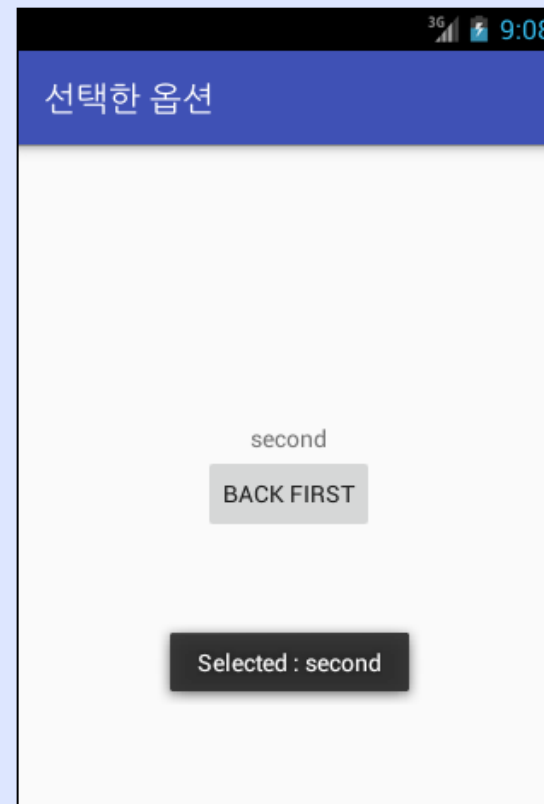
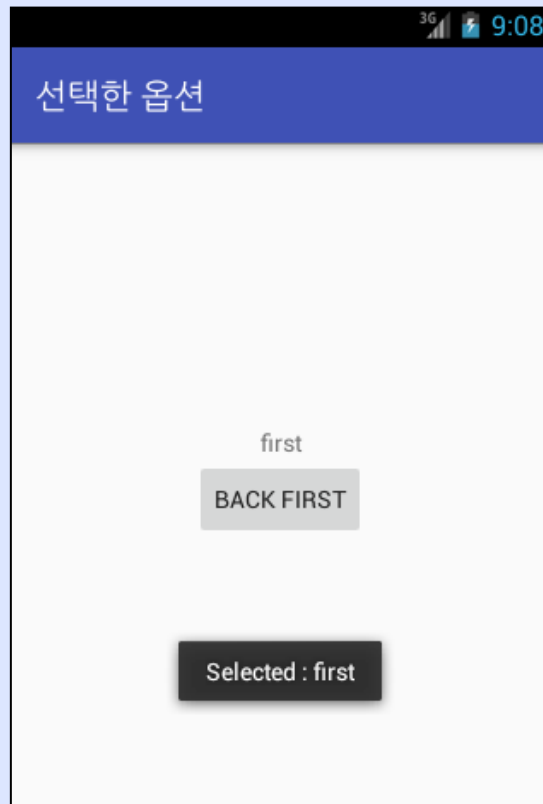
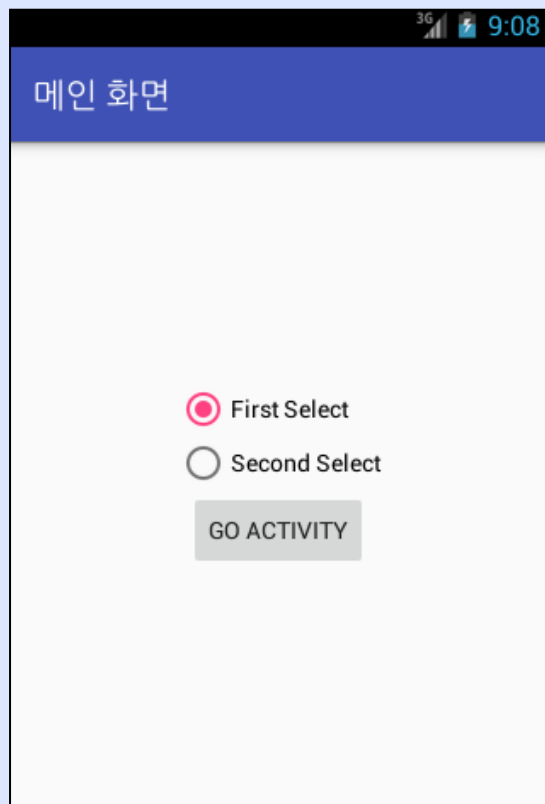


```
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    package="com.example.admin.selectintentex">

    <application
        android:allowBackup="true"
        android:icon="@mipmap/ic_launcher"
        android:label="SelectIntentEX"
        android:supportsRtl="true"
        android:theme="@style/AppTheme">
        <activity android:name=".MainActivity">
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />

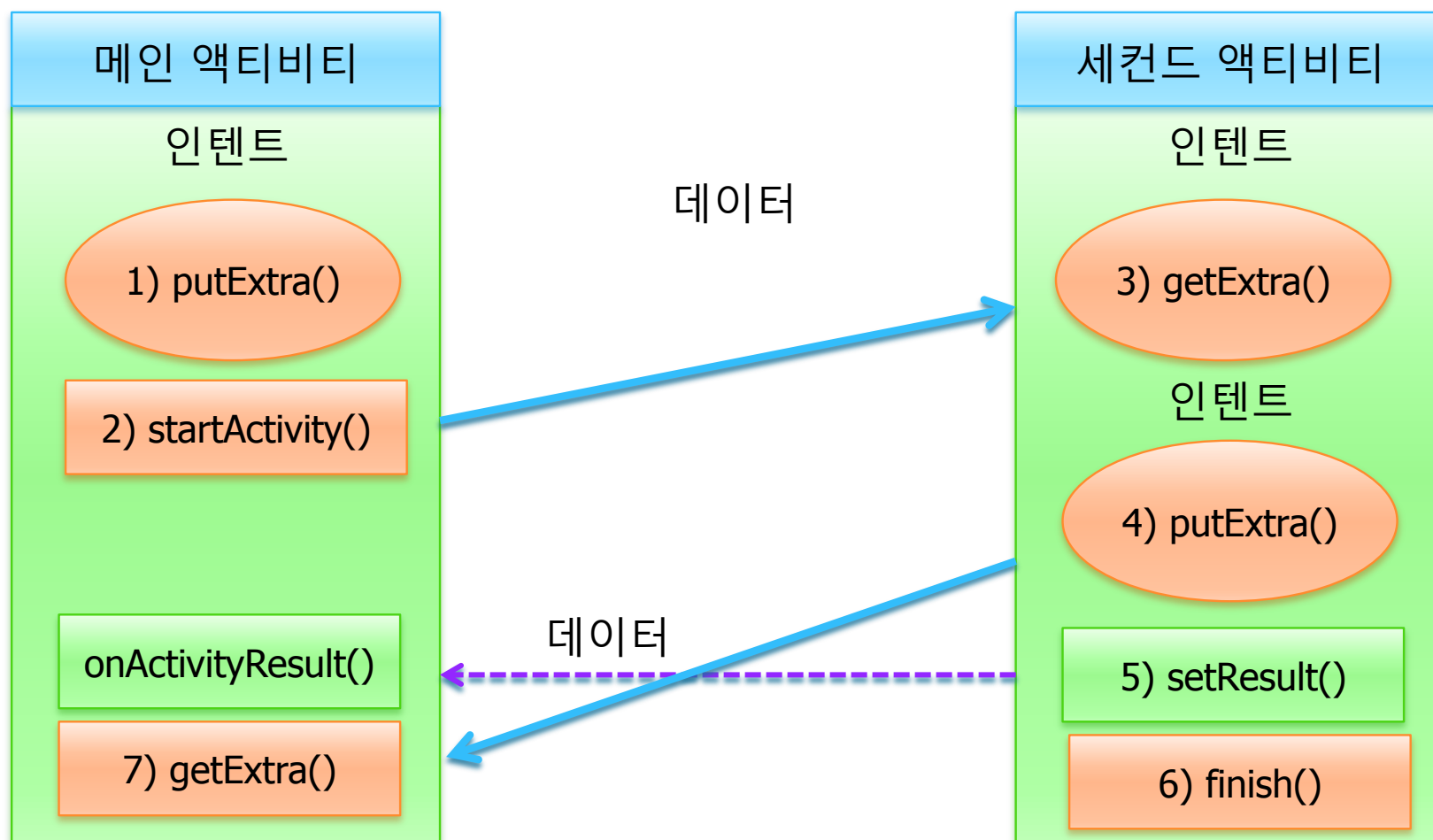
                <category android:name="android.intent.category.LAUNCHER" />
            </intent-filter>
        </activity>
        <activity android:name=".SecondActivity"></activity>
    </application>

</manifest>
```



Activity Data 전송 - 둘

- 메인 액티비티에서 세컨드 액티비티로 데이터 전송하고 세컨드 액티비티에서 메인 액티비티로 데이터 전송(양방향)



프로젝트 생성



Application name: `SendReceiveIntent`

Company Domain: `admid.example.com`

Project location: `C:\Android\StdWork\SendReceiveIntent`

Target Android Devices

- `Phone and Tabet`
- `Minimun SDK API 15 : Android 4.0.3`

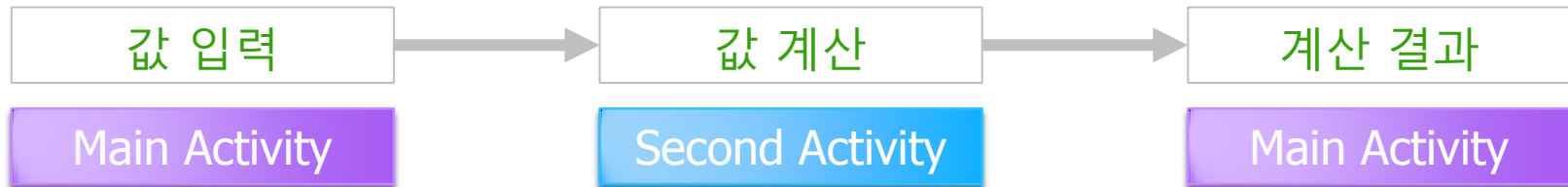
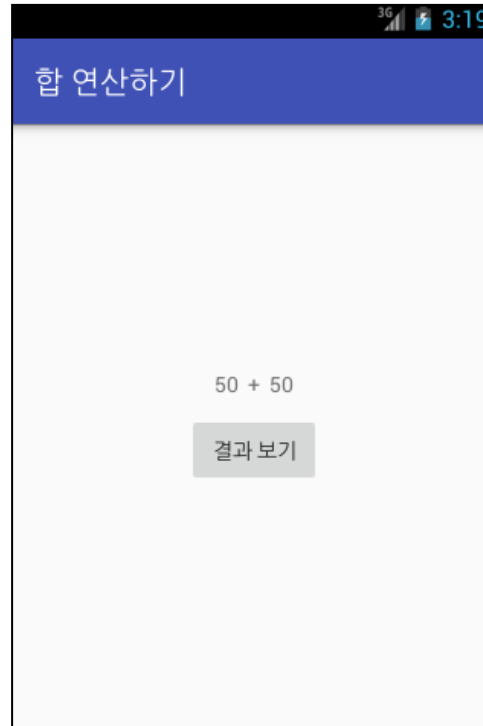
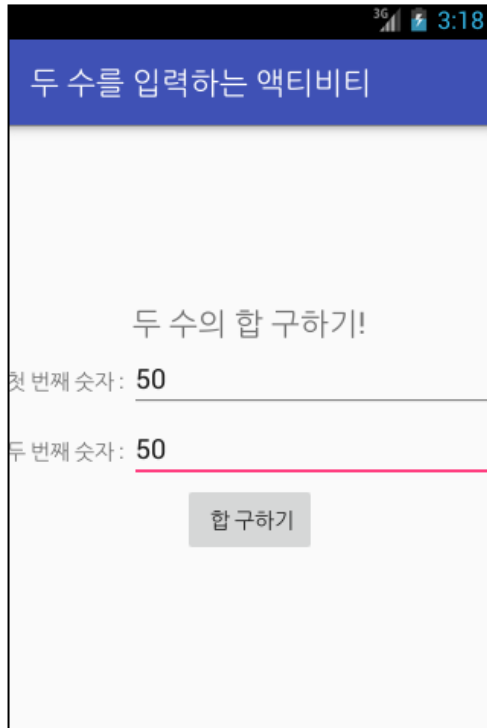
Add an activity to Mobile : `Empty Activity`

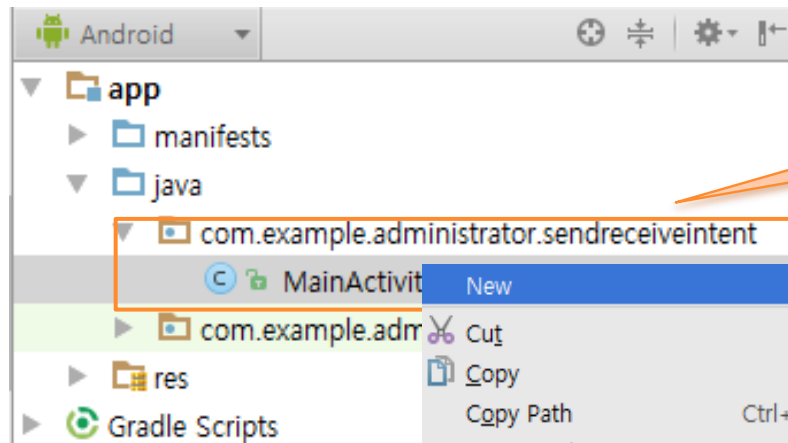
Customize the Activity

Activity Name: `MainActivity`

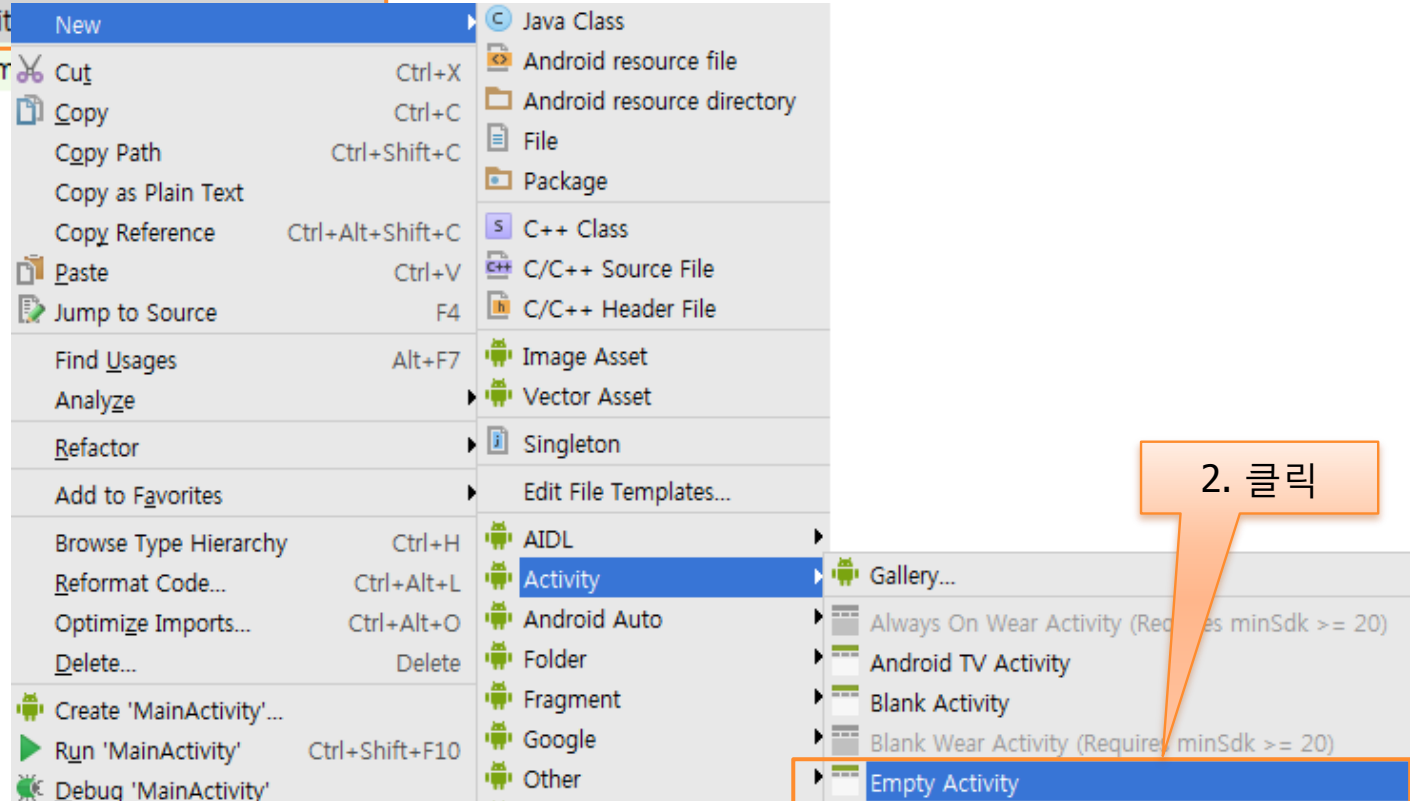
Layout Name: `activity_main`





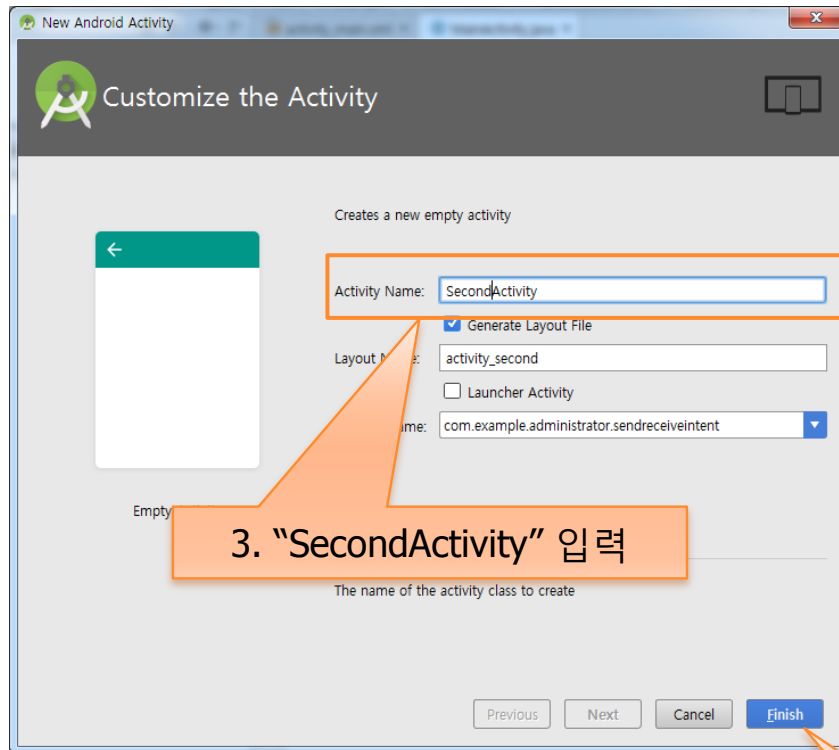


1. 오른쪽 마우스 클릭

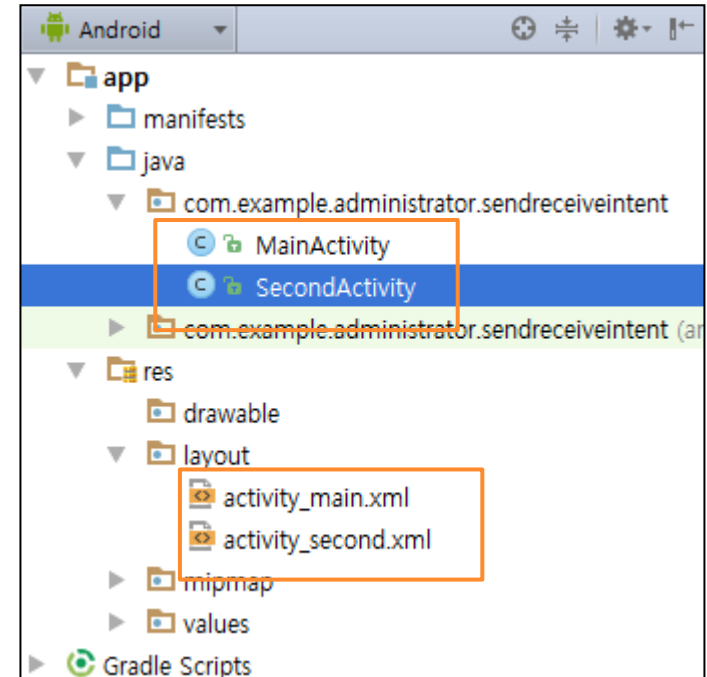


2. 클릭

Activity 및 Layout 추가 확인



3. "SecondActivity" 입력



4. 클릭

5. 코딩

```
1  <?xml version="1.0" encoding="utf-8"?>
2  <LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
3      android:layout_width="match_parent"
4      android:layout_height="match_parent"
5      android:gravity="center"
6      android:orientation="vertical">
7      <TextView
8          android:layout_width="wrap_content"
9          android:layout_height="wrap_content"
10         android:textSize="20dp"
11         android:text="두 수의 합 구하기!" />
12     <LinearLayout
13         android:layout_width="match_parent"
14         android:layout_height="wrap_content"
15         android:orientation="horizontal">
16         <TextView
17             android:layout_width="wrap_content"
18             android:layout_height="wrap_content"
19             android:text="첫 번째 숫자 : " />
20         <EditText
21             android:id="@+id/edtFirst"
22             android:layout_width="match_parent"
23             android:layout_height="wrap_content"
24             android:hint="숫자 입력" />
25     </LinearLayout>
26
```



```
26
27
28 <LinearLayout
29     android:layout_width="match_parent"
30     android:layout_height="wrap_content"
31     android:orientation="horizontal">
32     <TextView
33         android:layout_width="wrap_content"
34         android:layout_height="wrap_content"
35         android:text="두 번째 숫자 : " />
36     <EditText
37         android:id="@+id/edtSecond"
38         android:layout_width="match_parent"
39         android:layout_height="wrap_content"
40         android:hint="숫자 입력" />
41 </LinearLayout>
42 <Button
43     android:id="@+id/hapbtn"
44     android:layout_width="wrap_content"
45     android:layout_height="wrap_content"
46     android:text="합 구하기" />
```

6. 코딩



7. 코딩

```
1 <?xml version="1.0" encoding="utf-8"?>
2 <LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
3     android:layout_width="match_parent"
4     android:layout_height="match_parent"
5     android:gravity="center"
6     android:orientation="vertical">
7     <LinearLayout
8         android:layout_width="match_parent"
9         android:layout_height="wrap_content"
10        android:gravity="center"
11        android:orientation="horizontal">
12        <TextView
13            android:id="@+id/firstNum"
14            android:layout_width="wrap_content"
15            android:layout_height="wrap_content"
16            android:text="첫 번째 수" />
17        <TextView
18            android:layout_width="wrap_content"
19            android:layout_height="wrap_content"
20            android:text=" + " />
21        <TextView
22            android:id="@+id/secondNum"
23            android:layout_width="wrap_content"
24            android:layout_height="wrap_content"
25            android:text="두 번째 수" />
26    </LinearLayout>
27    <Button
28        android:id="@+id/RusultBtn"
29        android:layout_width="wrap_content"
30        android:layout_height="wrap_content"
31        android:layout_marginTop="10dp"
32        android:text="결과 보기" />
33 </LinearLayout>
```



8. 코딩

```
MainActivity.java x
1  package com.example.administrator.sendreceiveintent;
2
3  import ...
9
10 public class MainActivity extends AppCompatActivity {
11
12     EditText editTextFirst, editTextSecond;
13     Button hapBtn;
14
15     @Override
16     protected void onCreate(Bundle savedInstanceState) {
17         super.onCreate(savedInstanceState);
18         setContentView(R.layout.activity_main);
19
20         setTitle("두 수를 입력하는 액티비티");
21
22         editTextFirst = (EditText) findViewById(R.id.edtFirst);
23         editTextSecond = (EditText) findViewById(R.id.edtSecond);
24         hapBtn = (Button) findViewById(R.id.hapbtn);
25
```

9. 코딩

```
25
26 editTextFirst.setText("0");
27 editTextSecond.setText("0");
28
29 hapBtn.setOnClickListener(new View.OnClickListener() {
30     @Override
31     public void onClick(View v) {
32         Intent intent = new Intent(getApplicationContext(),
33             SecondActivity.class);
34         intent.putExtra("Num1", editTextFirst.getText().toString());
35         intent.putExtra("Num2", editTextSecond.getText().toString());
36         startActivityForResult(intent,0);
37     }
38 });
39
40 }
41 }
```

- 인텐트로 "Num1"과 "Num2"를 전송
- 결과 값은 다시 받기 위해서는 startActivityForResult()를 써야 함.

10. Line 14 클릭 후 오른쑈고 마우스 클릭

11. 클릭

```

2
3 import ...
9
10 public class MainActivity extends AppCompatActivity {
11
12     EditText editTextFirst, editTextSecond;
13     Button btn;
14
15     @Override
16     protected void onCreate(Bundle savedInstanceState) {
17         super.onCreate(savedInstanceState);
18         setContentView(R.layout.activity_main);
    
```

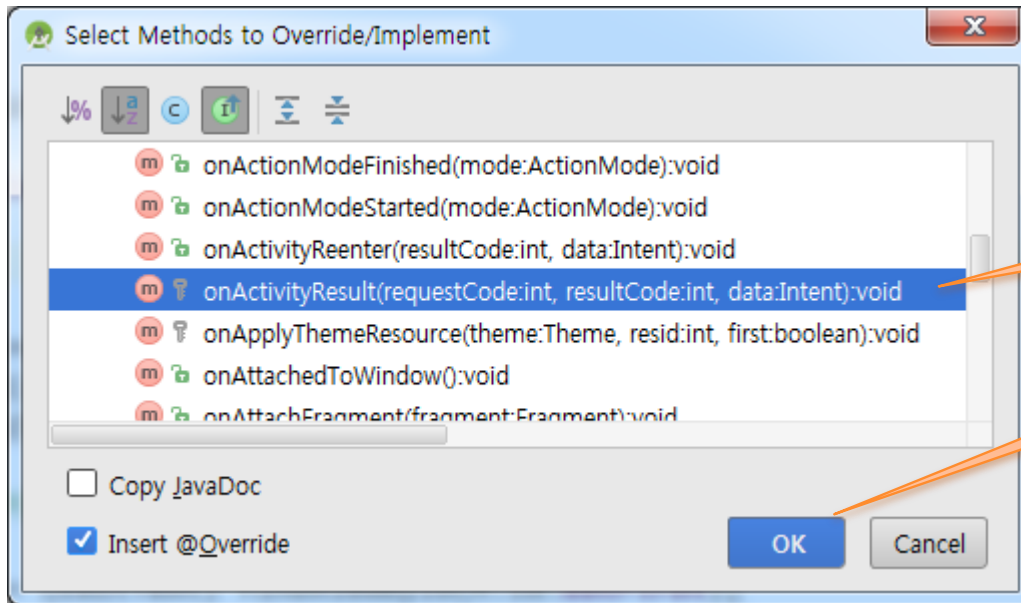
Generate... Alt+Insert

Create 'MainActivity'...
Run 'MainActivity' Ctrl+Shift+F10
Debug 'MainActivity'
Local History
Compare with Clipboard
File Encoding
Create Gist...

12. 클릭

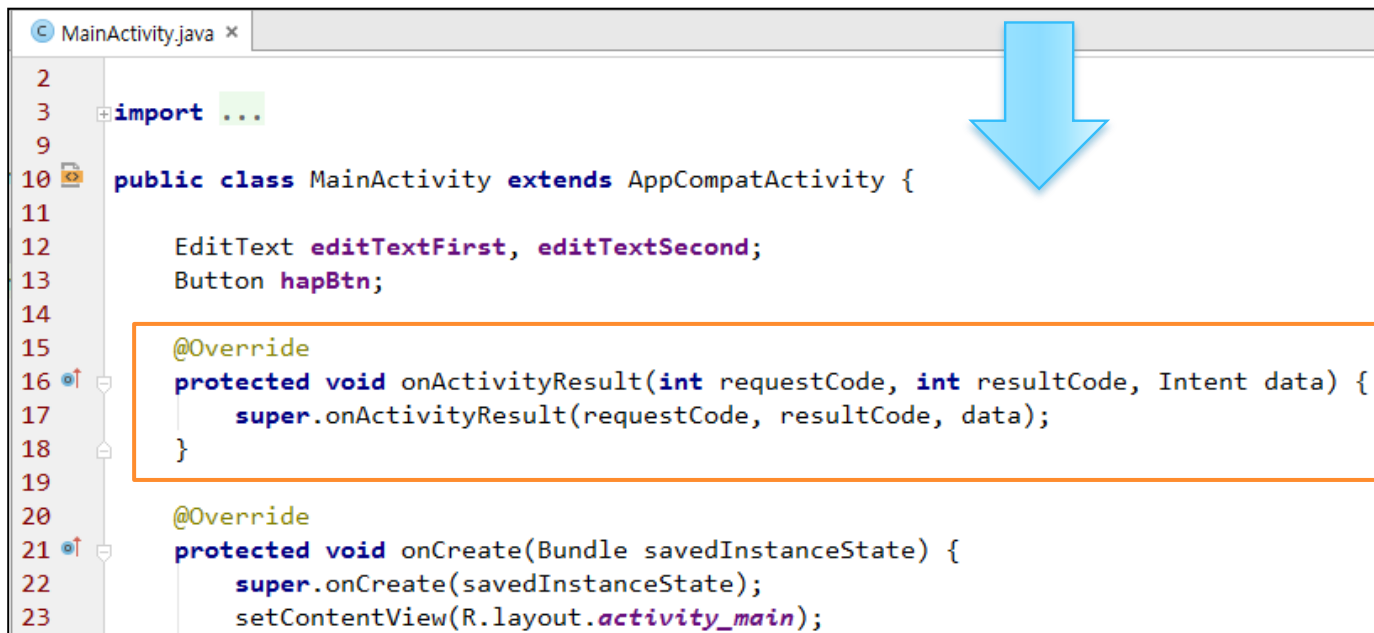
Generate

Constructor
Getter
Setter
Getter and Setter
equals() and hashCode()
toString()
Override Methods...
Delegate Methods...
Super Method Call
Copyright
App Indexing API Code



13. "onActivityResult(...)" 선택

14. 클릭



15. 추가 확인

MainActivity.java x

```
10
11 public class MainActivity extends AppCompatActivity {
12
13     EditText editTextFirst, editTextSecond;
14     Button hapBtn;
15
16     @Override
17     protected void onActivityResult(int requestCode, int resultCode, Intent data) {
18         super.onActivityResult(requestCode, resultCode, data);
19         if(resultCode == RESULT_OK){
20             int hap = data.getIntExtra("Hap", 0);
21             Toast.makeText(getApplicationContext(),
22                 "합계 : " + hap, Toast.LENGTH_LONG).show();
23         }
24     }
25
26     @Override
27     protected void onCreate(Bundle savedInstanceState) {
28         super.onCreate(savedInstanceState);
29         setContentView(R.layout.activity_main);
```

16. 코딩

```
SecondActivity.java x
1  package com.example.administrator.sendreceiveintent;
2
3  import ...
9
10 public class SecondActivity extends AppCompatActivity {
11     Button resultBtn;
12     TextView firstNum, secondNum;
13     int hap;
14     String FirstText, SecondText;
15
16     @Override
17     protected void onCreate(Bundle savedInstanceState) {
18         super.onCreate(savedInstanceState);
19         setContentView(R.layout.activity_second);
20
21         setTitle("합 연산하기");
22
23         resultBtn = (Button) findViewById(R.id.resultBtn);
24         firstNum = (TextView) findViewById(R.id.firstNum);
25         secondNum = (TextView) findViewById(R.id.secondNum);
26
```

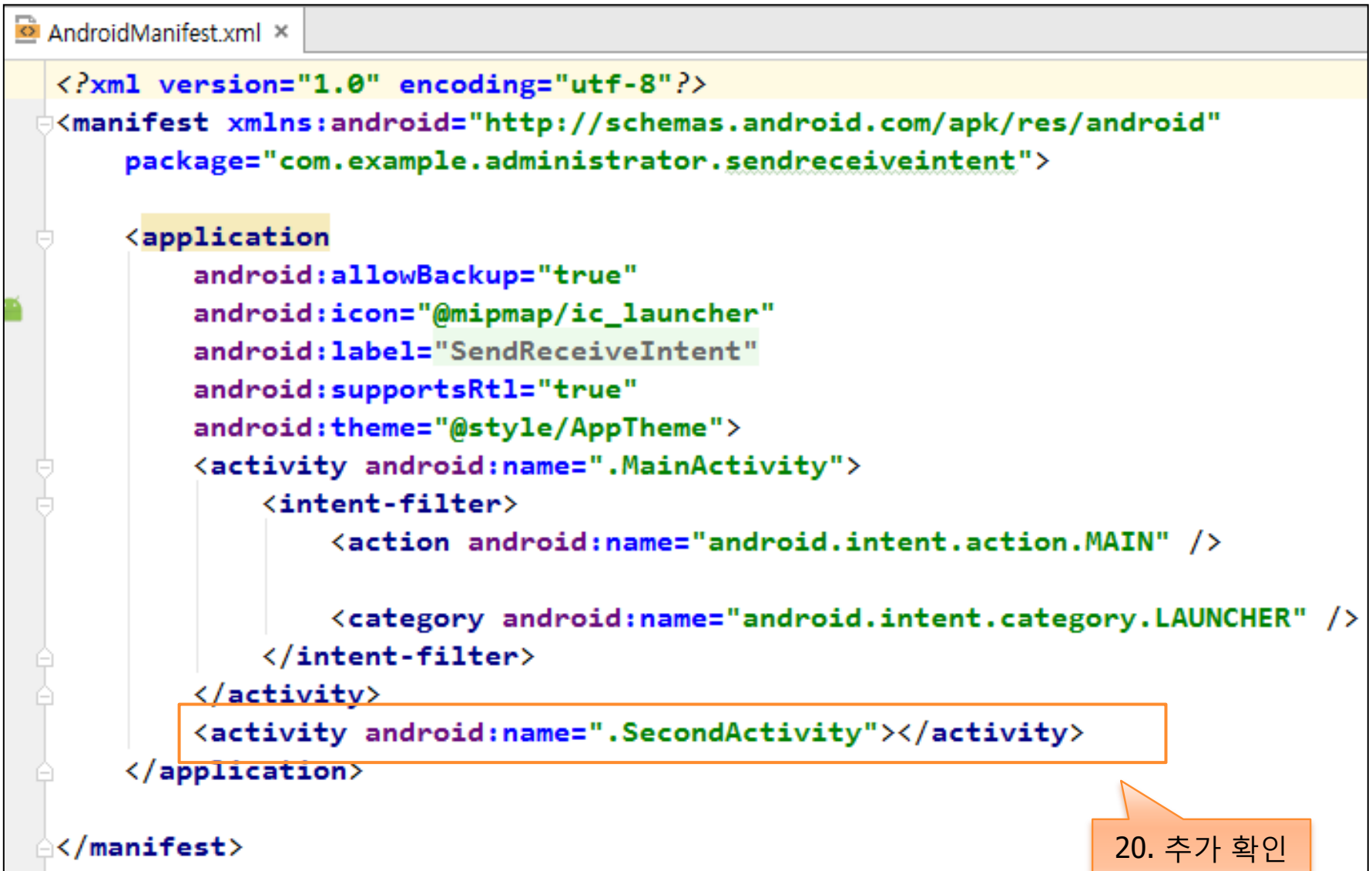
17. 코딩

18. 코딩

```
26
27 Intent inIntent = getIntent();
28 FirstText = inIntent.getStringExtra("Num1");
29 SecondText = inIntent.getStringExtra("Num2");
30
31 firstNum.setText(FirstText);
32 secondNum.setText(SecondText);
33
34 resultBtn.setOnClickListener(new View.OnClickListener() {
35     @Override
36     public void onClick(View v) {
37         hap = Integer.parseInt(FirstText) + Integer.parseInt(SecondText);
38         Intent outIntent = new Intent(getApplicationContext(),
39             MainActivity.class);
40         outIntent.putExtra("Hap", hap);
41         setResult(RESULT_OK, outIntent);
42         finish();
43     }
44 });
45
46 }
```

hap 을 "Hap" 명으로 전달

메인 액티비티로 돌아가며
onActivityResult() 메소드가 실행



```
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    package="com.example.administrator.sendreceiveintent">

    <application
        android:allowBackup="true"
        android:icon="@mipmap/ic_launcher"
        android:label="SendReceiveIntent"
        android:supportsRtl="true"
        android:theme="@style/AppTheme">
        <activity android:name=".MainActivity">
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />

                <category android:name="android.intent.category.LAUNCHER" />
            </intent-filter>
        </activity>
        <activity android:name=".SecondActivity"></activity>
    </application>

</manifest>
```

20. 추가 확인

3G 3:18

두 수를 입력하는 액티비티

두 수의 합 구하기!

첫 번째 숫자: 50

두 번째 숫자: 50

합 구하기

3G 3:19

합 연산하기

50 + 50

결과 보기

3G 3:19

두 수를 입력하는 액티비티

두 수의 합 구하기!

첫 번째 숫자: 50

두 번째 숫자: 50

합 구하기

합계: 100

값 입력

값 계산

계산 결과