



Android XML 파일 연동





학습 목표

교육 목표

- ❖ Spinner
- ❖ ListView
- ❖ Auto Complete Text View



Navigation voice



Traffic view



Street View



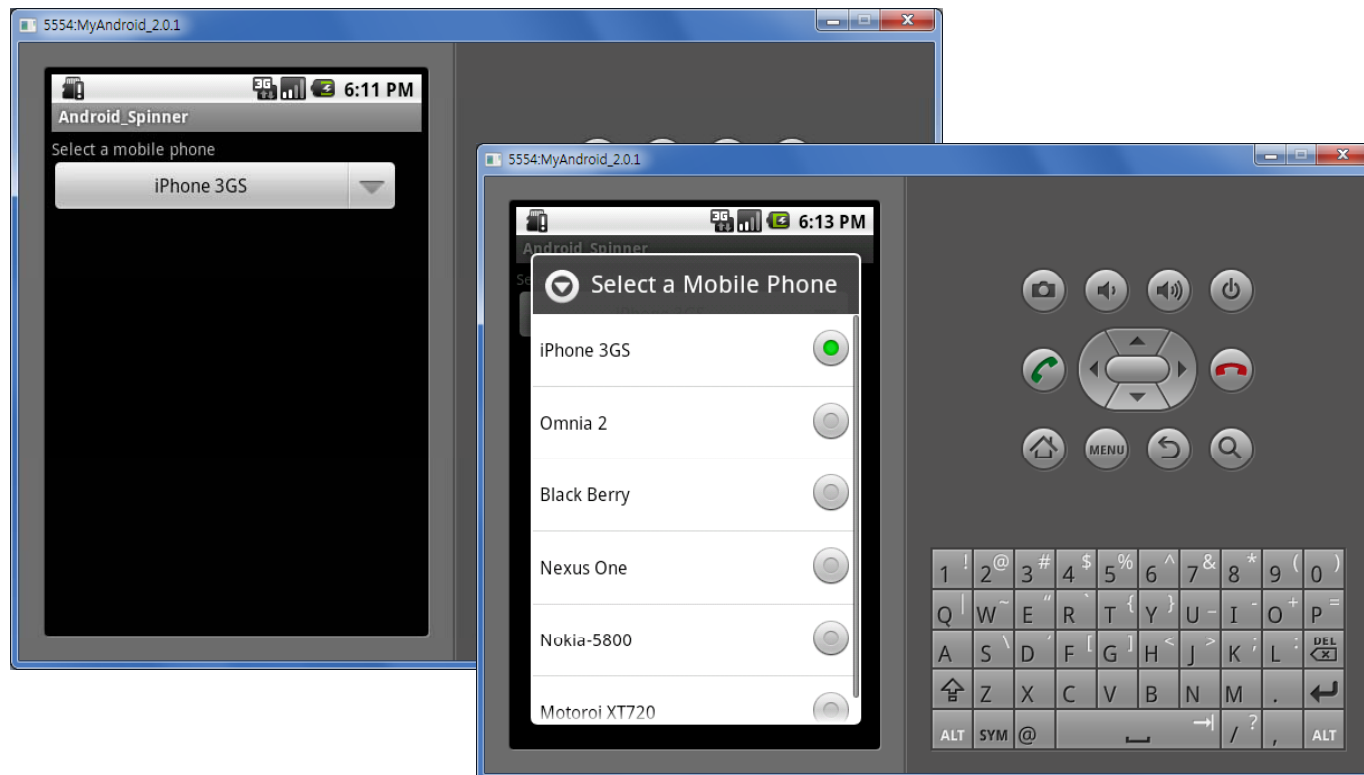


Spinner

Spinner

◆ 기능

◆ Drop Down List와 같이 item을 수평/수직으로 scroll하는 기능 제공

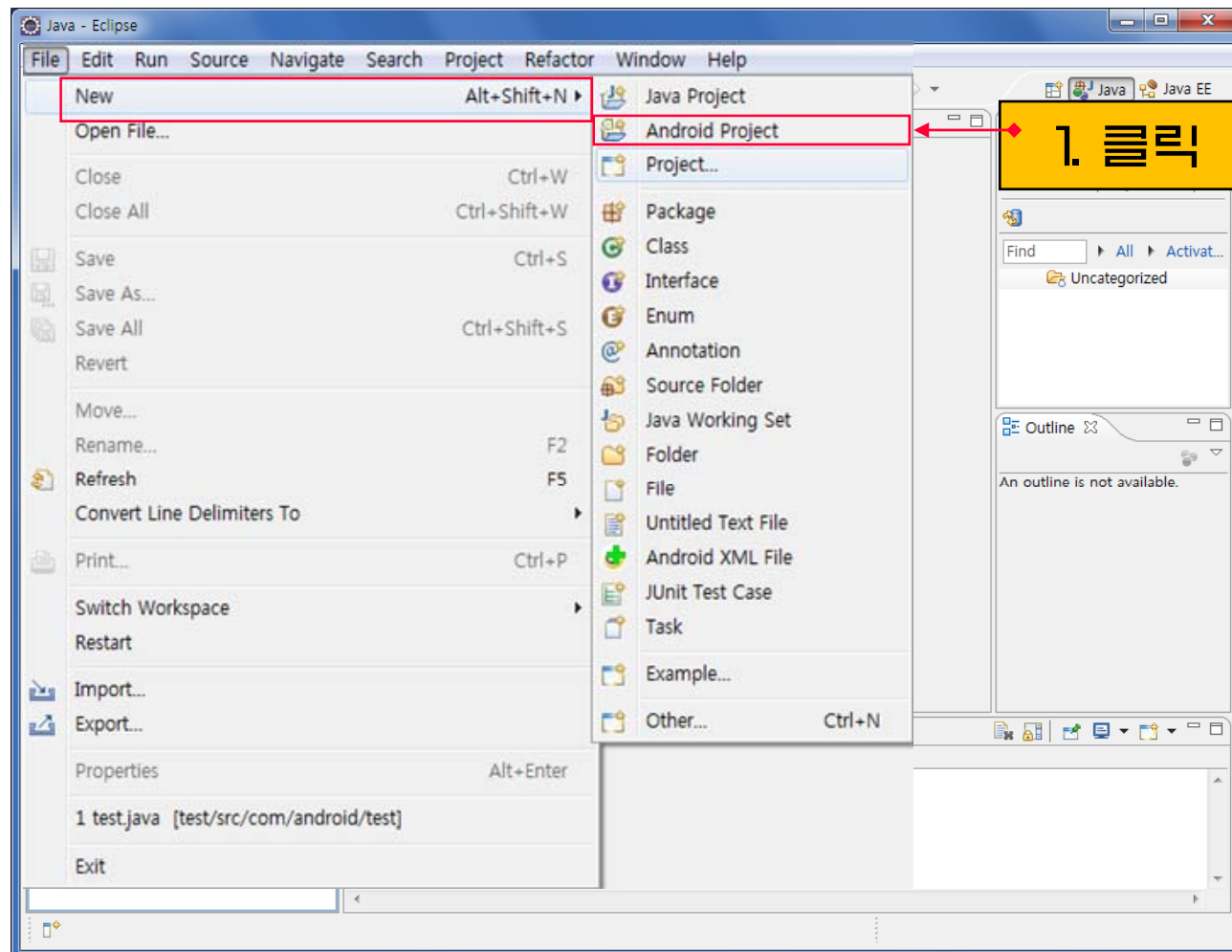




Spinner 구현 (1)

■ Android 프로젝트 생성

❖ 프로젝트 명 : Android_Spinner





Spinner 구현 (2)

New Android Project

Creates a new Android Project resource.

Project name:

Contents

☒ Create new project in workspace
☐ Create project from existing source
☒ Use default location

Location:

☐ Create project from existing sample

Samples:

Build Target

Target Name	Vendor	Platform	API ...
<input type="checkbox"/> Android 1.1	Android Open Source Project	1.1	2
<input type="checkbox"/> Android 1.5	Android Open Source Project	1.5	3
<input type="checkbox"/> Android 1.6	Android Open Source Project	1.6	4
<input type="checkbox"/> Android 2.0	Android Open Source Project	2.0	5
<input checked="" type="checkbox"/> Android 2.0.1	Android Open Source Project	2.0.1	6
<input type="checkbox"/> Google APIs	Google Inc.	1.5	3
<input type="checkbox"/> Google APIs	Google Inc.	1.6	4

Standard Android platform 2.0.1

Properties

Application name:

Package name:

☒ Create Activity:

Min SDK Version:

2. Android_Spinner 입력

3. 클릭

4. Android_Spinner 입력

5. com.inhatec.android_Spinner 입력

6. Android_Spinner 입력

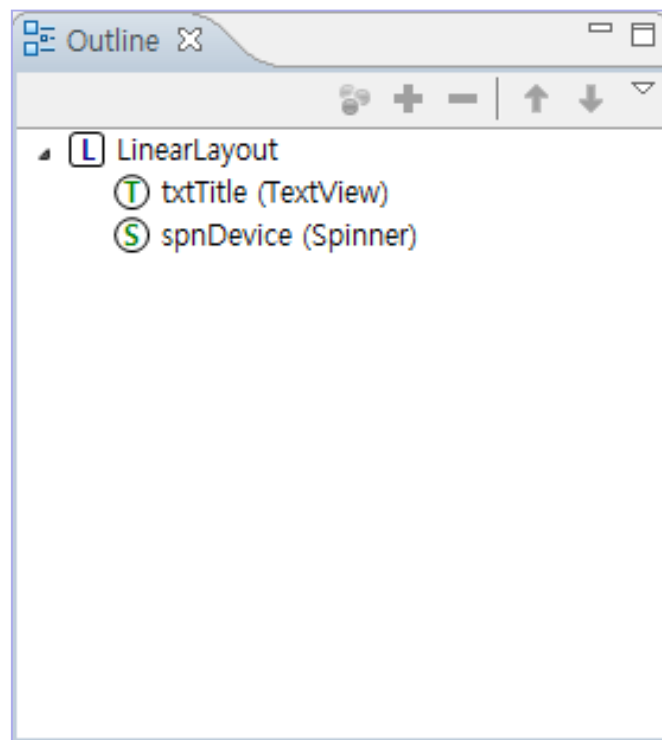
7. 클릭





Spinner 구현 (3)

UI 설계



8. UI 설계 및 속성 지정





Spinner 구현 (4)

❖ TextView01, Spinner01 속성 지정

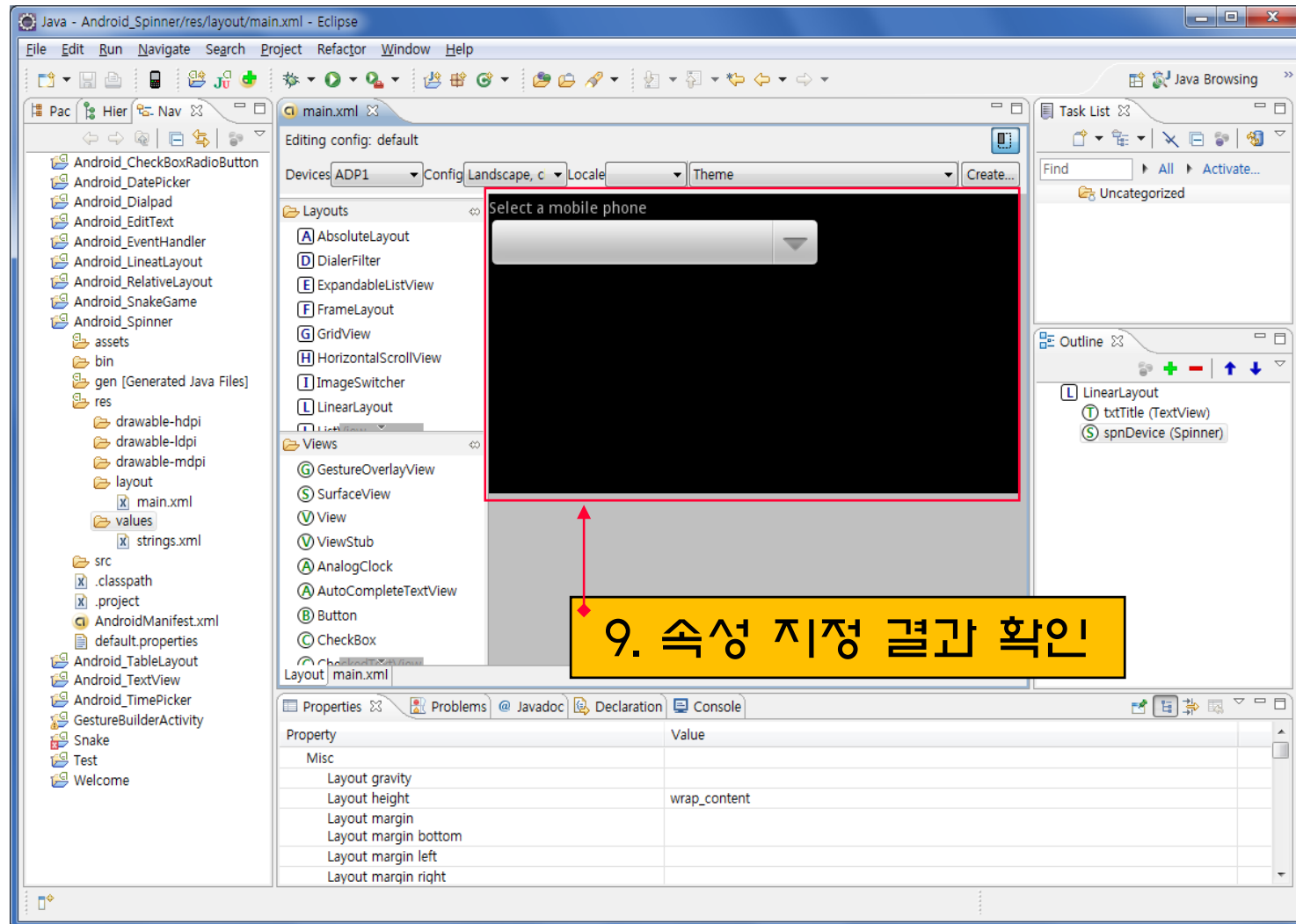
컨트롤	속성 지정
TextView01	<ul style="list-style-type: none">• android:layout_height="wrap_content"• android:id="@+id/txtTitle"• android:layout_marginTop="5dip"• android:layout_width="fill_parent"• android:text="Select a mobile phone"
Spinner01	<ul style="list-style-type: none">• android:layout_height="wrap_content"• android:layout_width="wrap_content"• android:minWidth="300dip"• android:id="@+id/spnDevice"





Spinner 구현 (5)

❖ TextView01, Spinner01 속성 지정 결과

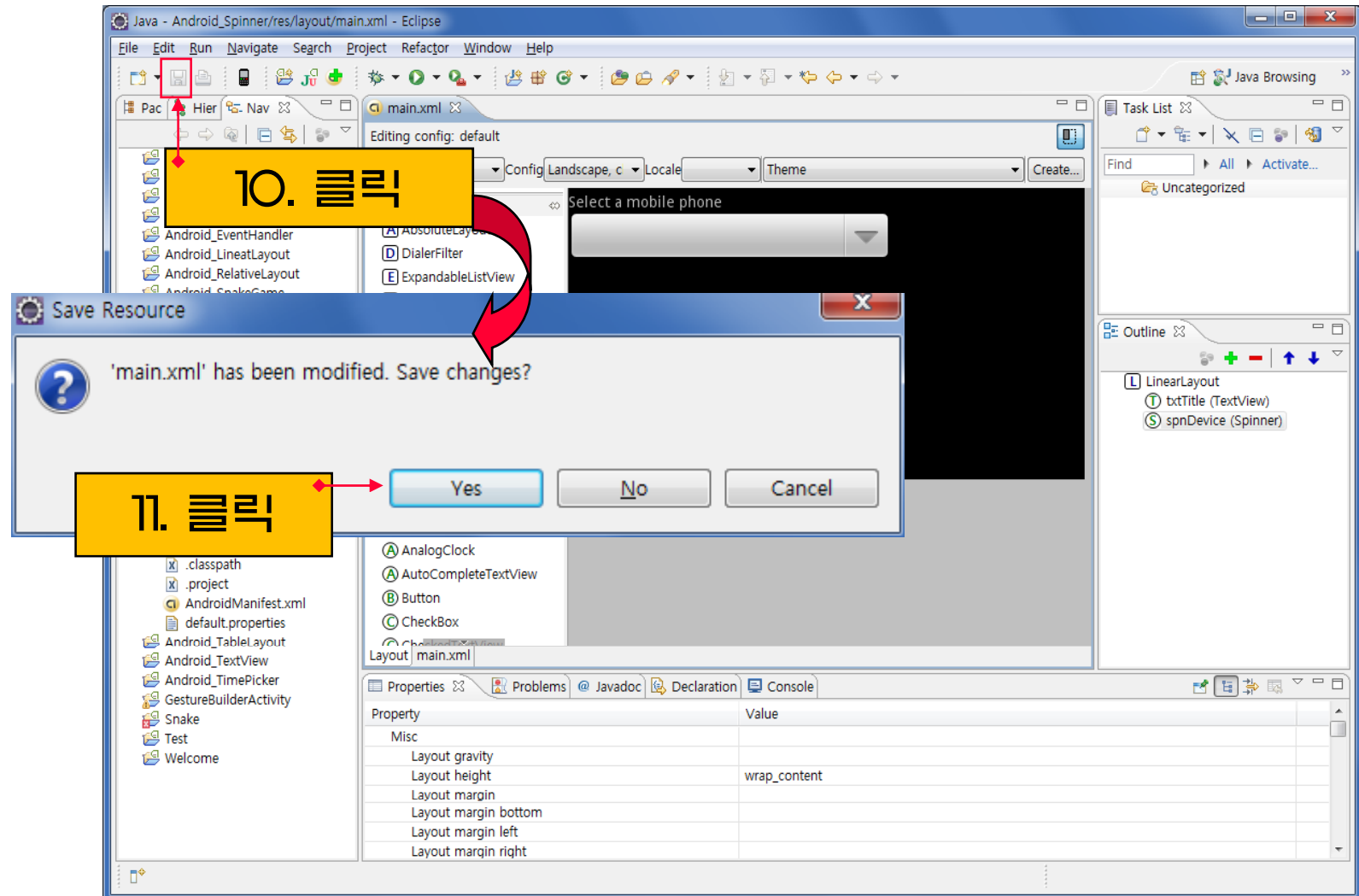


9. 속성 지정 결과 확인



Spinner 구현 (6)

❖ Main.xml 저장





Spinner 구현 (7)

❖ Main.xml

```
*main.xml
1<?xml version="1.0" encoding="utf-8"?>
2<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
3    android:orientation="vertical"
4    android:layout_width="fill_parent"
5    android:layout_height="fill_parent"
6    >
7
8    <TextView
9        android:layout_height="wrap_content"
10       android:id="@+id/txtTitle"
11       android:layout_marginTop="5dip"
12       android:layout_width="fill_parent"
13       android:text="Select a mobile phone">
14    </TextView>
15    <Spinner
16        android:layout_height="wrap_content"
17        android:layout_width="wrap_content"
18        android:minWidth="300dip"
19        android:id="@+id/spnDevice">
20    </Spinner>
21</LinearLayout>
```

12. XML code 추가 확인



Spinner 구현 (8)

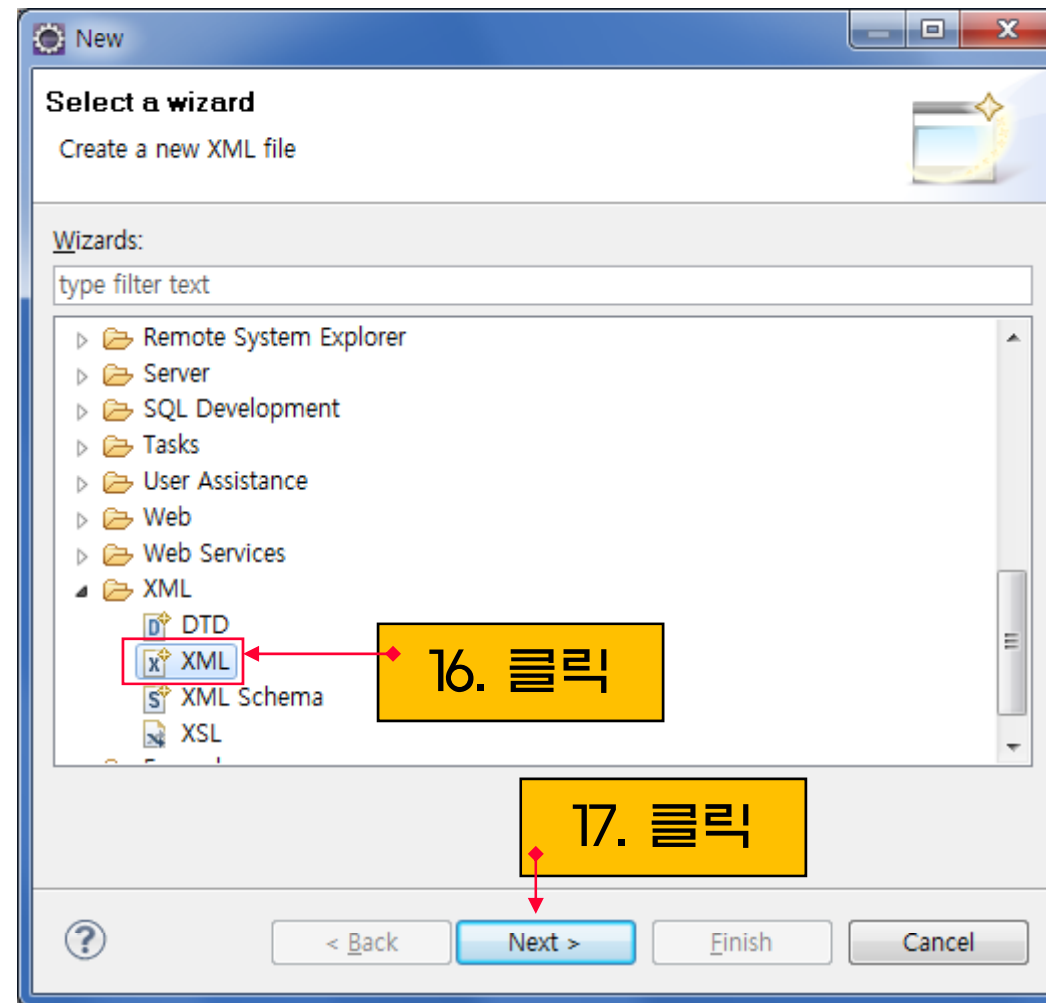
❖ itemlist.xml 생성

The screenshot shows the Eclipse IDE interface with the following elements and annotations:

- Project Explorer:** The 'res' folder is expanded, showing 'drawable-mdpi', 'layout', 'main.xml', 'values', and 'strings.xml'. The 'values' folder is highlighted with a red box and an arrow pointing to it.
- Context Menu:** A right-click context menu is open over the 'values' folder. The 'New' option is highlighted with a red box and an arrow pointing to it. A yellow box with the text '14. 클릭' (Click) is placed over the 'New' option.
- File List:** The 'New' submenu is open, showing various file types. The 'Other...' option at the bottom is highlighted with a red box and an arrow pointing to it. A yellow box with the text '15. 클릭' (Click) is placed over the 'Other...' option.
- Annotation:** A yellow box with the text '13. 마우스 오른쪽 버튼 클릭' (Right mouse button click) is placed over the 'values' folder in the Project Explorer.

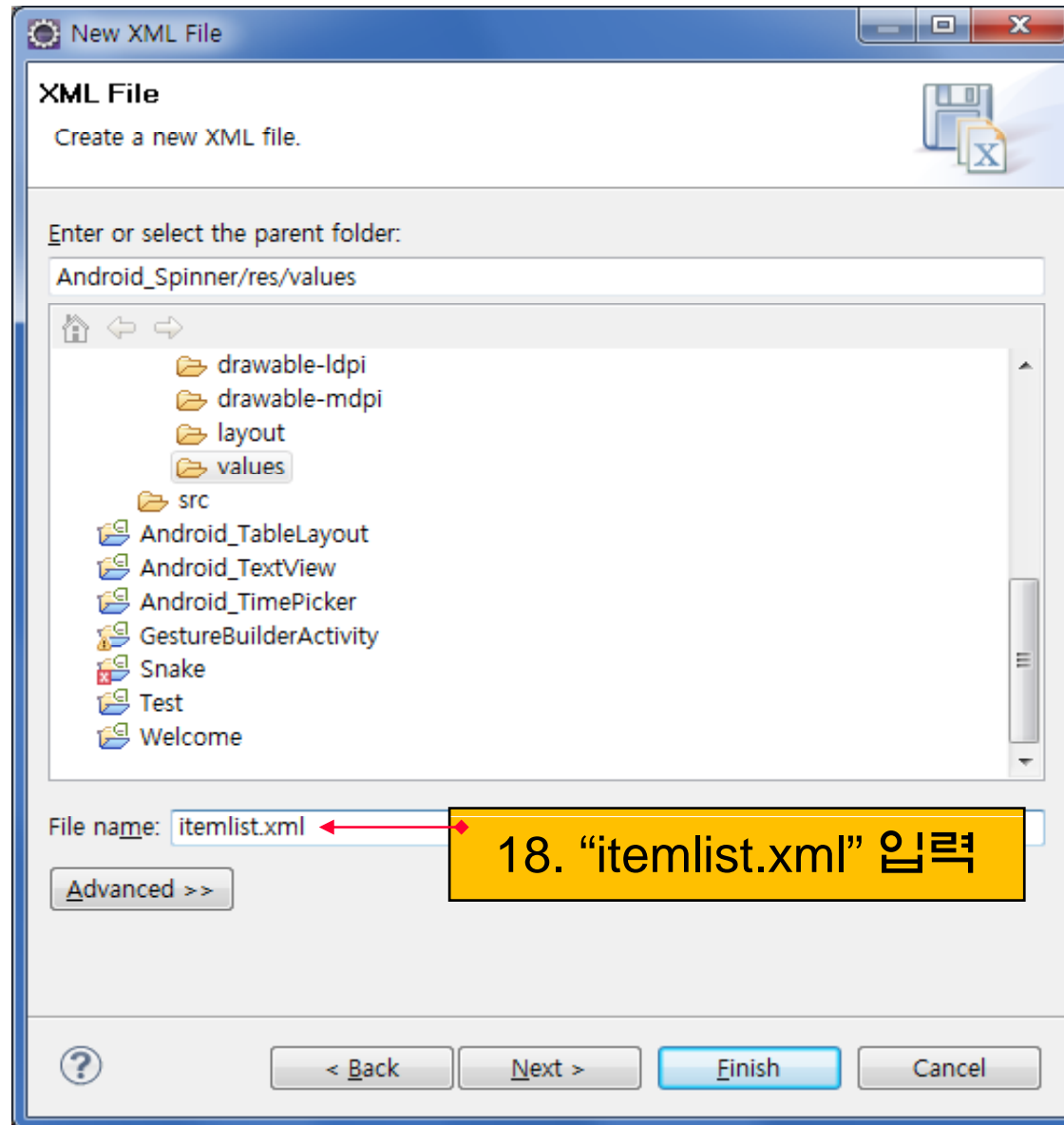


Spinner 구현 (9)





Spinner 구현 (10)





Spinner 구현 (11)

❖ itemlist.xml

◆ Item 지정

```
itemlist.xml X
1<?xml version="1.0" encoding="UTF-8"?>
2<resources>
3
4    <string-array name="MobilePhones">
5        <item>iPhone 3GS</item>
6        <item>Omnia 2</item>
7        <item>Black Berry</item>
8        <item>Nexus One</item>
9        <item>Nokia-5800</item>
10       <item>Motoroi XT720</item>
11    </string-array>
12
13</resources>
```

19. XML code 추가 확인





Spinner 구현 (12)

❖ R.java

```
R.java X
1 1+/* AUTO-GENERATED FILE. DO NOT MODIFY.
7
8 package com.inhatec.android_Spinner;
9
10 public final class R {
11     public static final class array {
12         public static final int MobilePhones=0x7f040000;
13     }
14     public static final class attr {
15     }
16     public static final class drawable {
17         public static final int icon=0x7f020000;
18     }
19     public static final class id {
20         public static final int spnDevice=0x7f060001;
21         public static final int txtTitle=0x7f060000;
22     }
23     public static final class layout {
24         public static final int main=0x7f030000;
25     }
26     public static final class string {
27         public static final int app_name=0x7f050001;
28         public static final int hello=0x7f050000;
29     }
30 }
```

20. id 클래스 변수 추가 확인





Spinner 구현 (13)

Android_Spinner.java

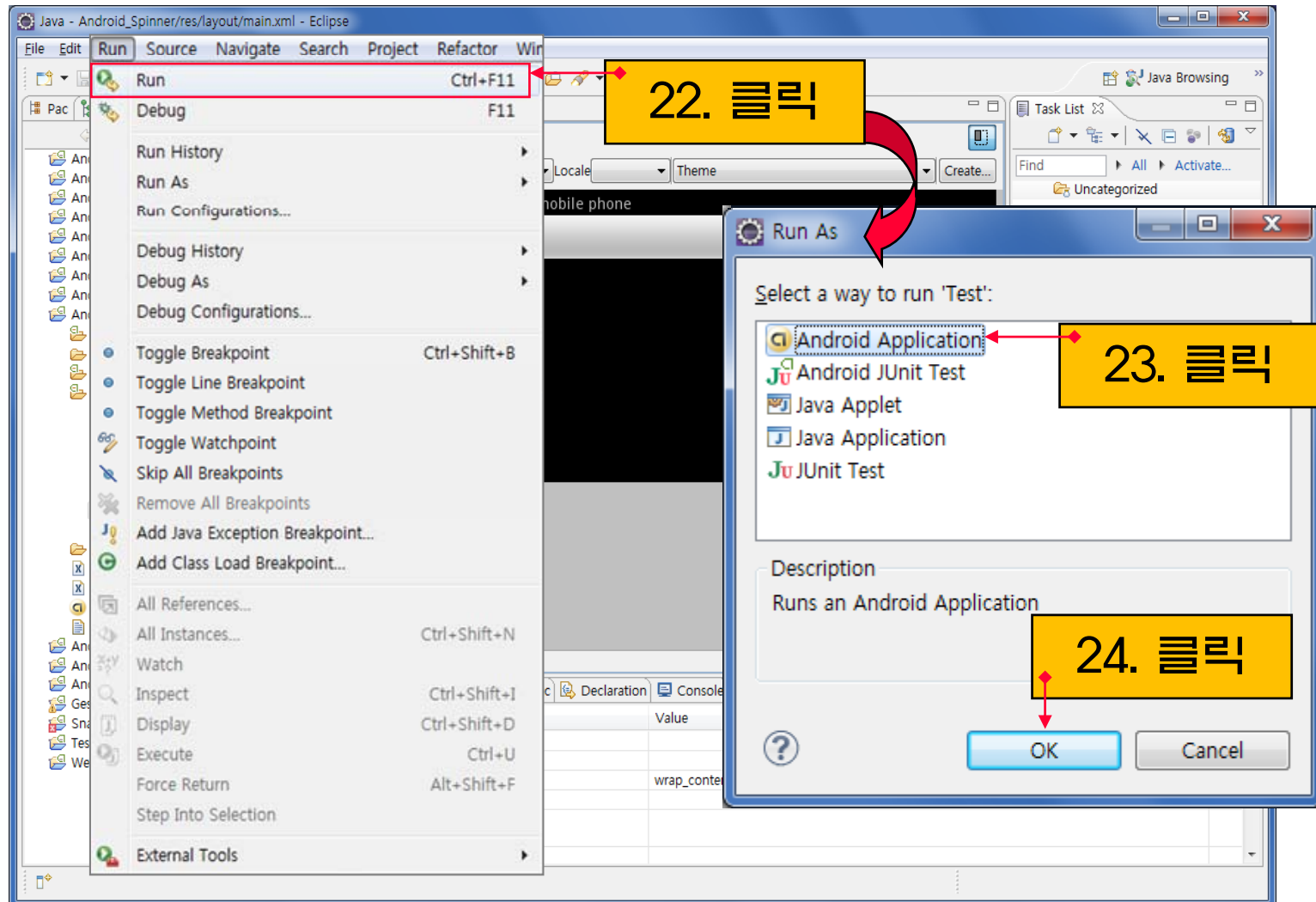
```
*Android_Spinner.java X
1 package com.inhatc.android_Spinner;
2
3 import android.app.Activity;
4
5
6
7
8 public class Android_Spinner extends Activity {
9     /** Called when the activity is first created. */
10    Spinner objSpnDevice;           //Spinner 객체 선언
11    ArrayAdapter objAdapter;        //Array 객체 선언
12
13    @Override
14    public void onCreate(Bundle savedInstanceState) {
15        super.onCreate(savedInstanceState);
16        setContentView(R.layout.main);
17
18        objSpnDevice = (Spinner) findViewById(R.id.spnDevice);
19        objSpnDevice.setPrompt("Select a Mobile Phone");
20
21        objAdapter = ArrayAdapter.createFromResource(
22            this, R.array.MobilePhones, android.R.layout.simple_spinner_item);
23        objAdapter.setDropDownViewResource(android.R.layout.simple_spinner_dropdown_item);
24        objSpnDevice.setAdapter(objAdapter);
25    }
26 }
```

21. Coding



Spinner 구현 (14)

❖ Android 프로젝트 실행





Spinner 구현 (15)

실행 결과





List View (1)

List View

기능

- ◆ Scrolling되는 하나의 column list를 출력하는 기능 제공





List View (2)

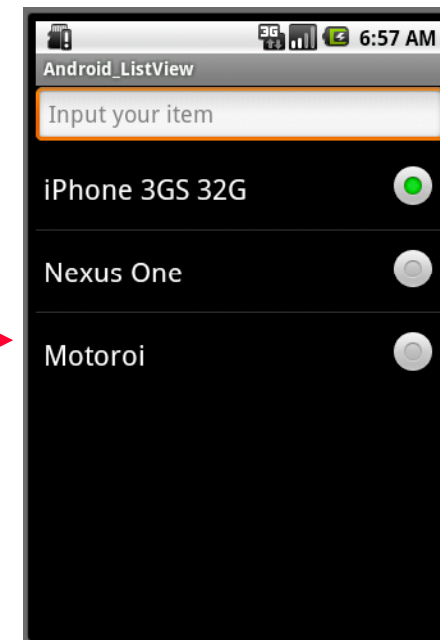
ArrayList – ArrayAdapter - List View 관계

List 내용

iPhone 3GS
Nexus One
Motoroi

Array
Adapter

List View 내용 update

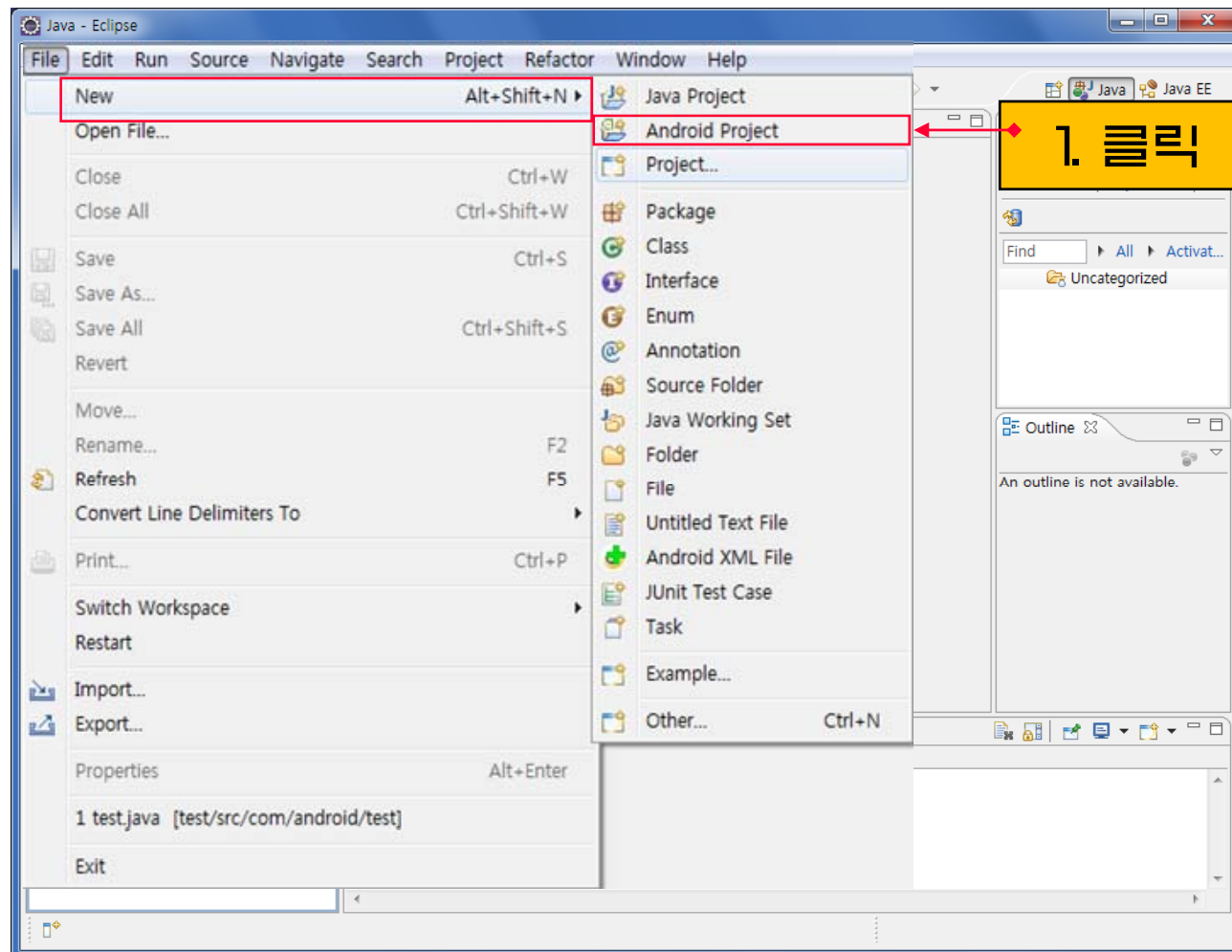




List View 구현 (1)

■ Android 프로젝트 생성

❖ 프로젝트 명 : Android_ListView





List View 구현 (2)

New Android Project

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Project name:

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- ☐ Create project from existing source
- ☒ Use default location

Location:

☐ Create project from existing sample

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<input type="checkbox"/> Android 1.6	Android Open Source Project	1.6	4
<input type="checkbox"/> Android 2.0	Android Open Source Project	2.0	5
<input checked="" type="checkbox"/> Android 2.0.1	Android Open Source Project	2.0.1	6
<input type="checkbox"/> Google APIs	Google Inc.	1.5	3
<input type="checkbox"/> Google APIs	Google Inc.	1.6	4

Standard Android platform 2.0.1

Properties

Application name:

Package name:

☒ Create Activity:

Min SDK Version:

2. Android_ListView 입력

3. 클릭

4. Android_ListView 입력

5. com.inhatec.android_ListView 입력

6. Android_ListView 입력

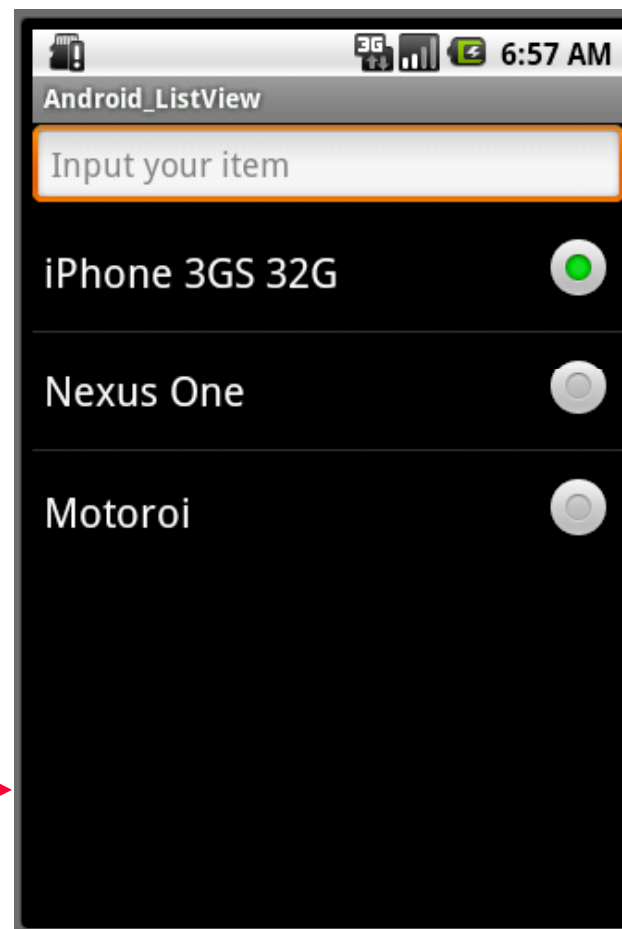
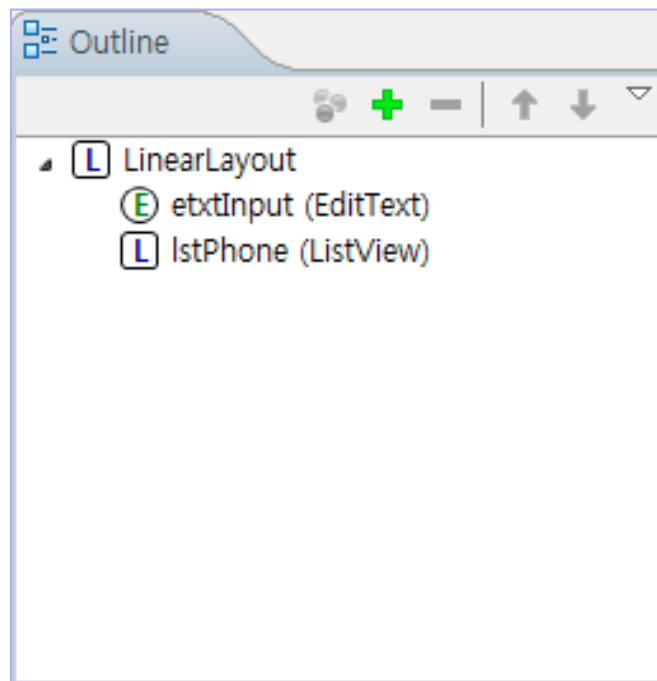
7. 클릭





List View 구현 (3)

■ UI 설계



8. UI 설계 및 속성 지정



List View 구현 (4)

❖ EditText, ListView 속성 지정

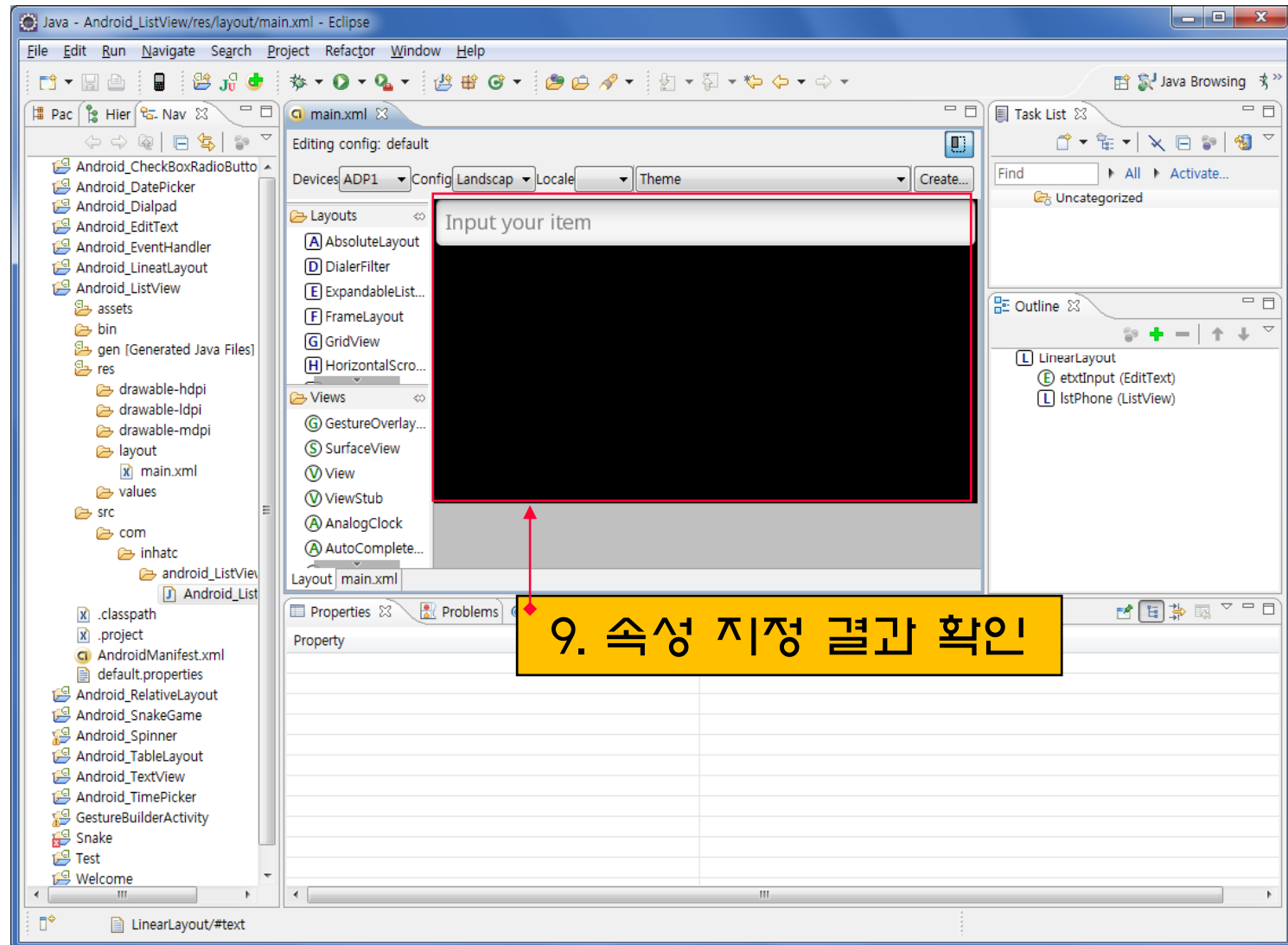
컨트롤	속성 지정
EditText	<ul style="list-style-type: none">• android:layout_height="wrap_content"• android:id="@+id/etxtInput"• android:hint="Input your item"• android:width="300dip"• android:layout_width="fill_parent"• android:singleLine="true"
ListView	<ul style="list-style-type: none">• android:layout_width="fill_parent"• android:layout_height="wrap_content"• android:id="@+id/lstPhone"

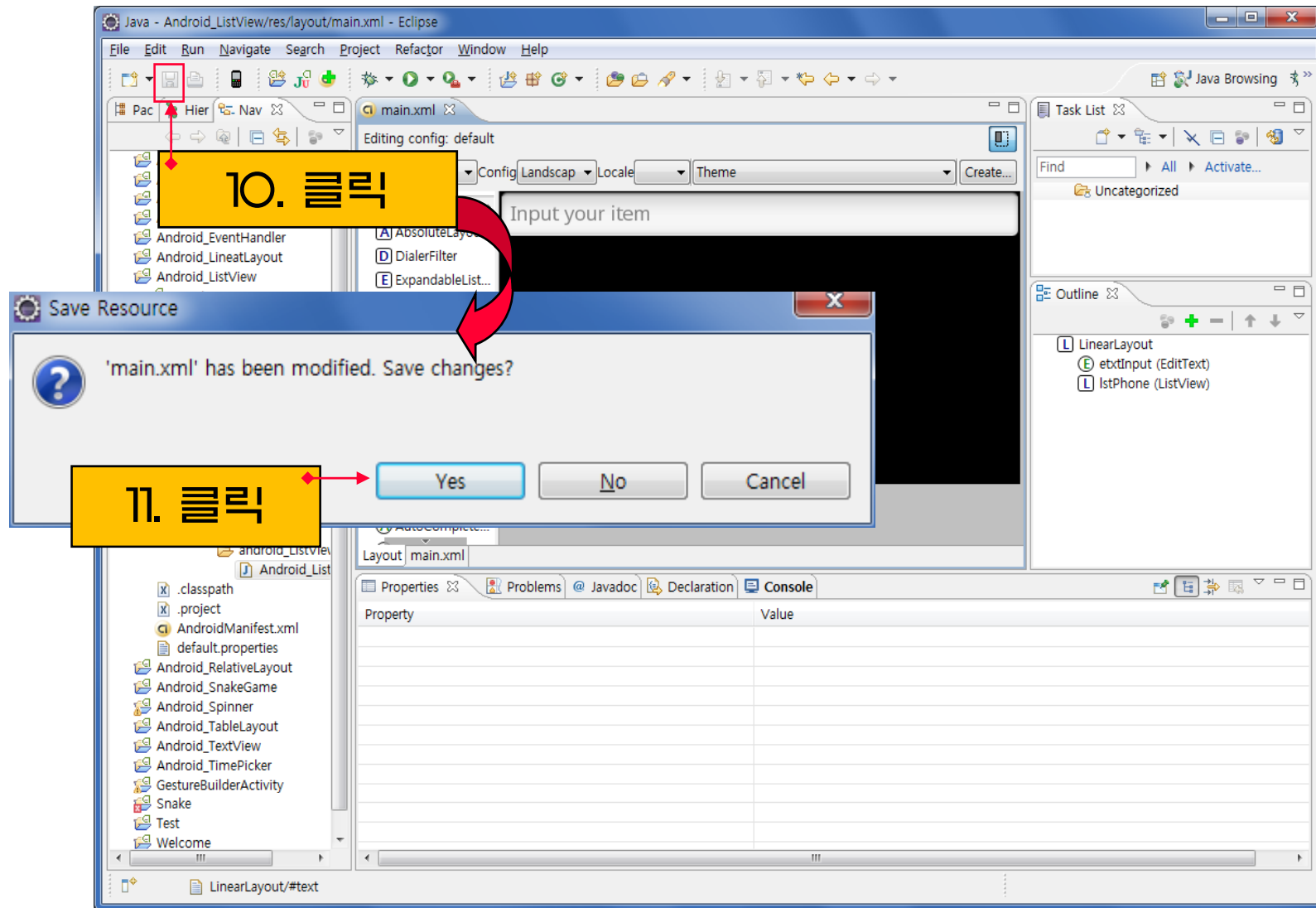




List View 구현 (5)

❖ EditText, ListView 속성 지정 결과







List View 구현 (7)

❖ Main.xml

```
*main.xml
1<?xml version="1.0" encoding="utf-8"?>
2<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
3    android:orientation="vertical"
4    android:layout_width="fill_parent"
5    android:layout_height="fill_parent"
6    >
7
8    <EditText
9        android:layout_height="wrap_content"
10       android:id="@+id/etxtInput"
11       android:hint="Input your item"
12       android:width="300dip"
13       android:layout_width="fill_parent"
14       android:singleLine="true">
15    </EditText>
16    <ListView
17        android:layout_height="wrap_content"
18        android:id="@+id/lstPhone"
19        android:layout_width="fill_parent">
20    </ListView>
21</LinearLayout>
```

12. XML code 추가 확인





List View 구현 (8)

❖ R.java

```
R.java
1+/* AUTO-GENERATED FILE. DO NOT MODIFY.
7
8 package com.inhatc.android_ListView;
9
10 public final class R {
11     public static final class attr {
12     }
13     public static final class drawable {
14         public static final int icon=0x7f020000;
15     }
16     public static final class id {
17         public static final int etxtInput=0x7f050000;
18         public static final int lstPhone=0x7f050001;
19     }
20     public static final class layout {
21         public static final int main=0x7f030000;
22     }
23     public static final class string {
24         public static final int app_name=0x7f040001;
25         public static final int hello=0x7f040000;
26     }
27 }
```

13. id 클래스 변수 추가 확인





List View 구현 (9)

■ Android_ListView.java

❖ 객체 선언

```
Android_ListView.java
1 package com.inhatc.android_ListView;
2
3 import java.util.ArrayList;
4
5 import android.app.Activity;
6 import android.os.Bundle;
7 import android.view.KeyEvent;
8 import android.widget.ArrayAdapter;
9 import android.widget.EditText;
10 import android.widget.ListView;
11 import android.widget.TextView;
12 import android.widget.TextView.OnEditorActionListener;
13
14 public class Android_ListView extends Activity {
15     /** Called when the activity is first created. */
16     ArrayList<String> lstSmartPhones;    //ArrayList 객체선언
17     ArrayAdapter<String> adtPhones;      //ArrayAdapter 객체선언
18     ListView lstView;                   //ListView 객체 선언
19     EditText ettxtAddItem;               //EditText 객체 선언
20 }
```

14. Coding



List View 구현 (10)

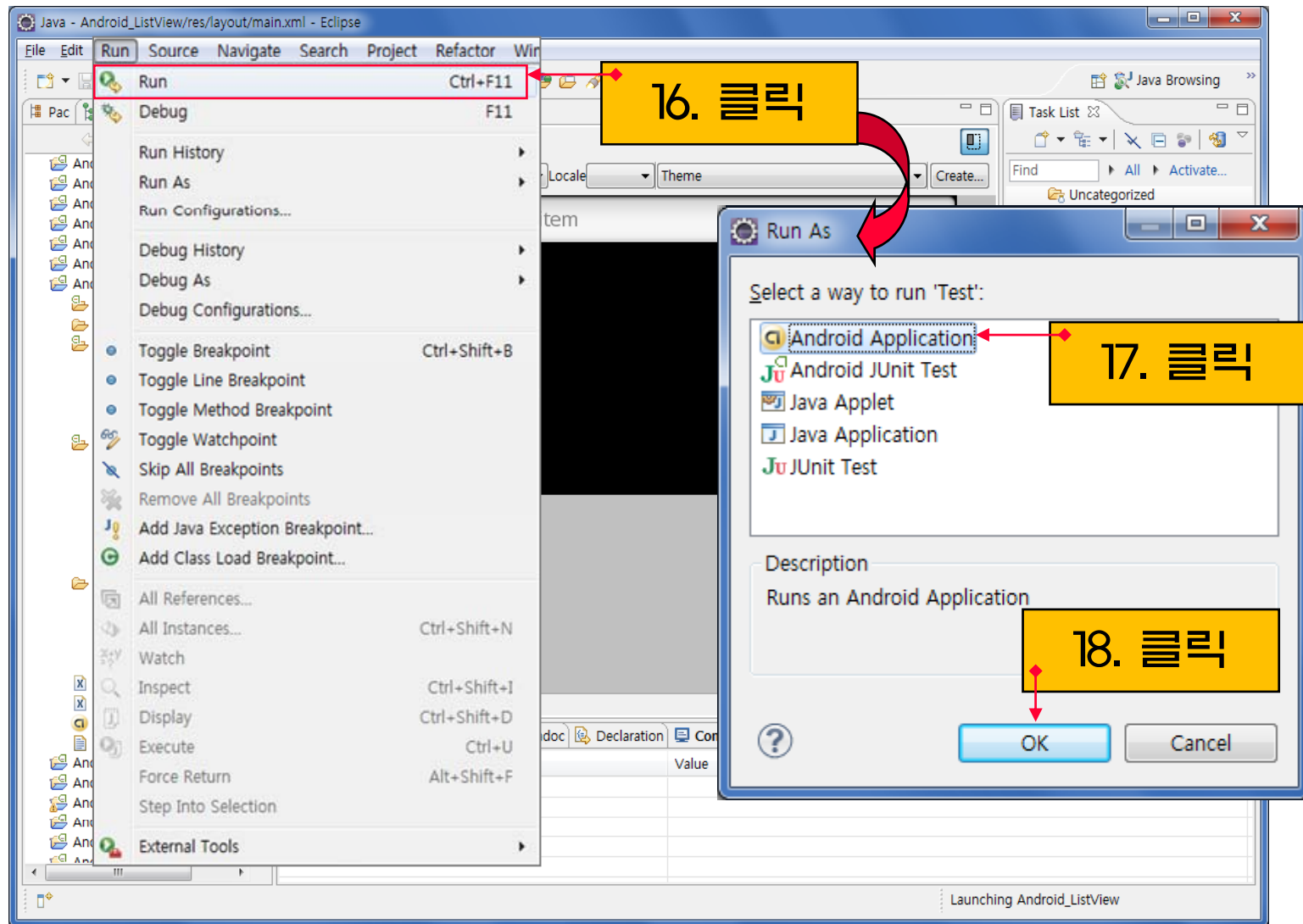
```
Android_ListView.java X
21 @Override
22 public void onCreate(Bundle savedInstanceState) {
23     super.onCreate(savedInstanceState);
24     setContentView(R.layout.main);
25
26     lstSmartPhones = new ArrayList<String>();
27     lstSmartPhones.add("iPhone 3GS 32G");
28     lstSmartPhones.add("Nexus One");
29     lstSmartPhones.add("Motoroi");
30
31     adtPhones = new ArrayAdapter<String>(this,
32         android.R.layout.simple_list_item_single_choice, lstSmartPhones);
33
34     etxtAddItem = (EditText) findViewById(R.id.etxtInput);
35     lstView = (ListView) findViewById(R.id.lstPhone);
36     lstView.setAdapter(adtPhones);
37     lstView.setChoiceMode(ListView.CHOICE_MODE_SINGLE);
38
39     etxtAddItem.setOnEditorActionListener(AddItem_Listener);
40 }
41
42 private OnEditorActionListener AddItem_Listener = new OnEditorActionListener() {
43     @Override
44     public boolean onEditorAction(TextView v, int actionId, KeyEvent event) {
45         // TODO Auto-generated method stub
46         lstSmartPhones.add(etxtAddItem.getText().toString());
47         return false;
48     }
49 };
50 }
```

15. Coding



List View 구현 (11)

❖ Android 프로젝트 실행



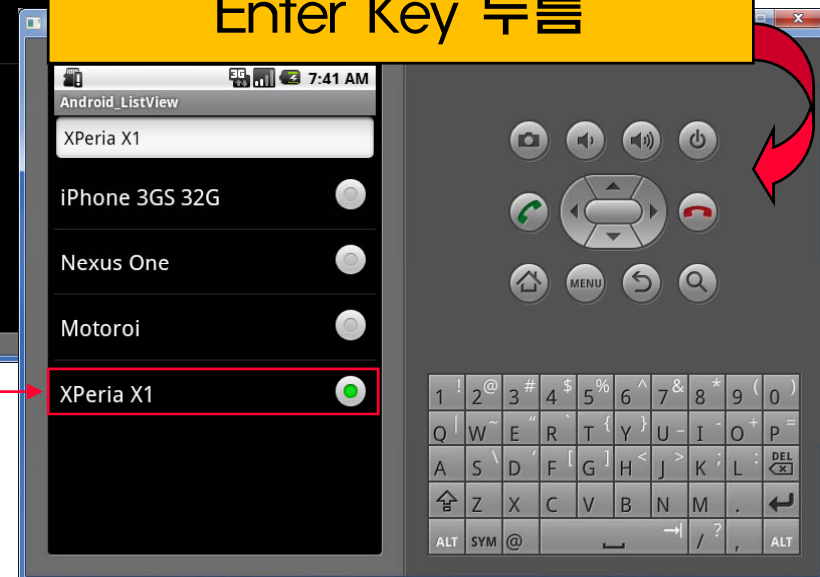


List View 구현 (12)

실행 결과



21. ListView에
"Xperia X1" 추가 확인





실습 1 : List View 구현 (1)

■ Android_ListViewPractice1 (실습 시간 : 10분)

❖ AndroidPractice_Listview.java 파일을 프로그래밍하여 아래 그림과 같이 구현하시오.

◆ 단계 1: ListView에서 다중 선택 가능





실습 1 : List View 구현 (2)

```
Android_ListView.java X
21 @Override
22 public void onCreate(Bundle savedInstanceState) {
23     super.onCreate(savedInstanceState);
24     setContentView(R.layout.main);
25
26     lstSmartPhones = new ArrayList<String>();
27     lstSmartPhones.add("iPhone 3GS 32G");
28     lstSmartPhones.add("Nexus One");
29     lstSmartPhones.add("Motoroi");
30
31     adtPhones = new ArrayAdapter<String>(this,
32         android.R.layout.simple_list_item_single_choice, lstSmartPhones);
33
34     etxtAddItem = (EditText) findViewById(R.id.etxtInput);
35     lstView = (ListView) findViewById(R.id.lstPhone);
36     lstView.setAdapter(adtPhones);
37     lstView.setChoiceMode(ListView.CHOICE_MODE_SINGLE);
38
39     etxtAddItem.setOnEditorActionListener(AddItem_Listener);
40 }
41
42 private OnEditorActionListener AddItem_Listener = new OnEditorActionListener() {
43     @Override
44     public boolean onEditorAction(TextView v, int actionId, KeyEvent event) {
45         // TODO Auto-generated method stub
46         lstSmartPhones.add(etxtAddItem.getText().toString());
47         return false;
48     }
49 };
50 }
```

Hint

Constants

int	CHOICE_MODE_MULTIPLE	The list allows multiple choices
int	CHOICE_MODE_NONE	Normal list that does not indicate choices
int	CHOICE_MODE_SINGLE	The list allows up to one choice



실습 2 : List View 구현

■ AndroidPractice_ListViewPractice2 (실습 시간 : 30분)

❖ AndroidPractice_ListviewPractice2.java 파일을 프로그래밍하여 아래 그림과 같이 구현하시오.

◆ 단계 1: ListView에서 item 선택

◆ 단계 2: 선택한 item의 text를 EditText에 출력



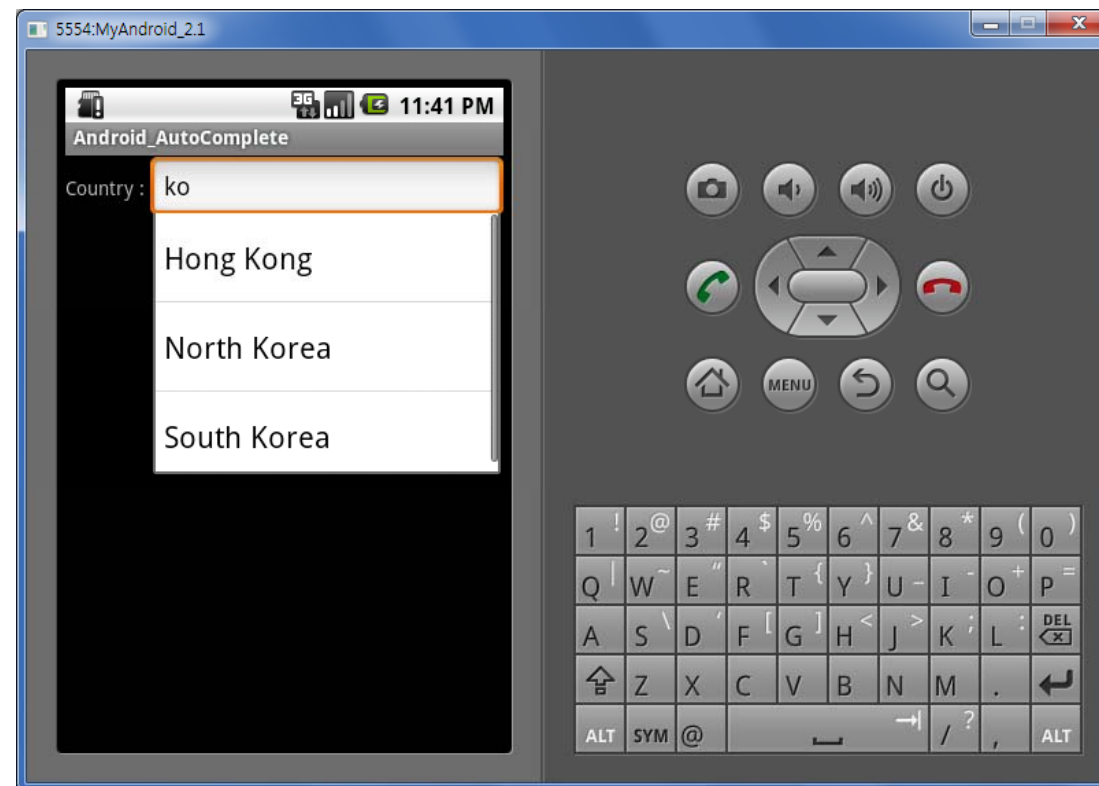


Auto Complete Text View

■ Auto Complete Text View

❖ 기능

◆ 문자열 자동 완성 기능 제공

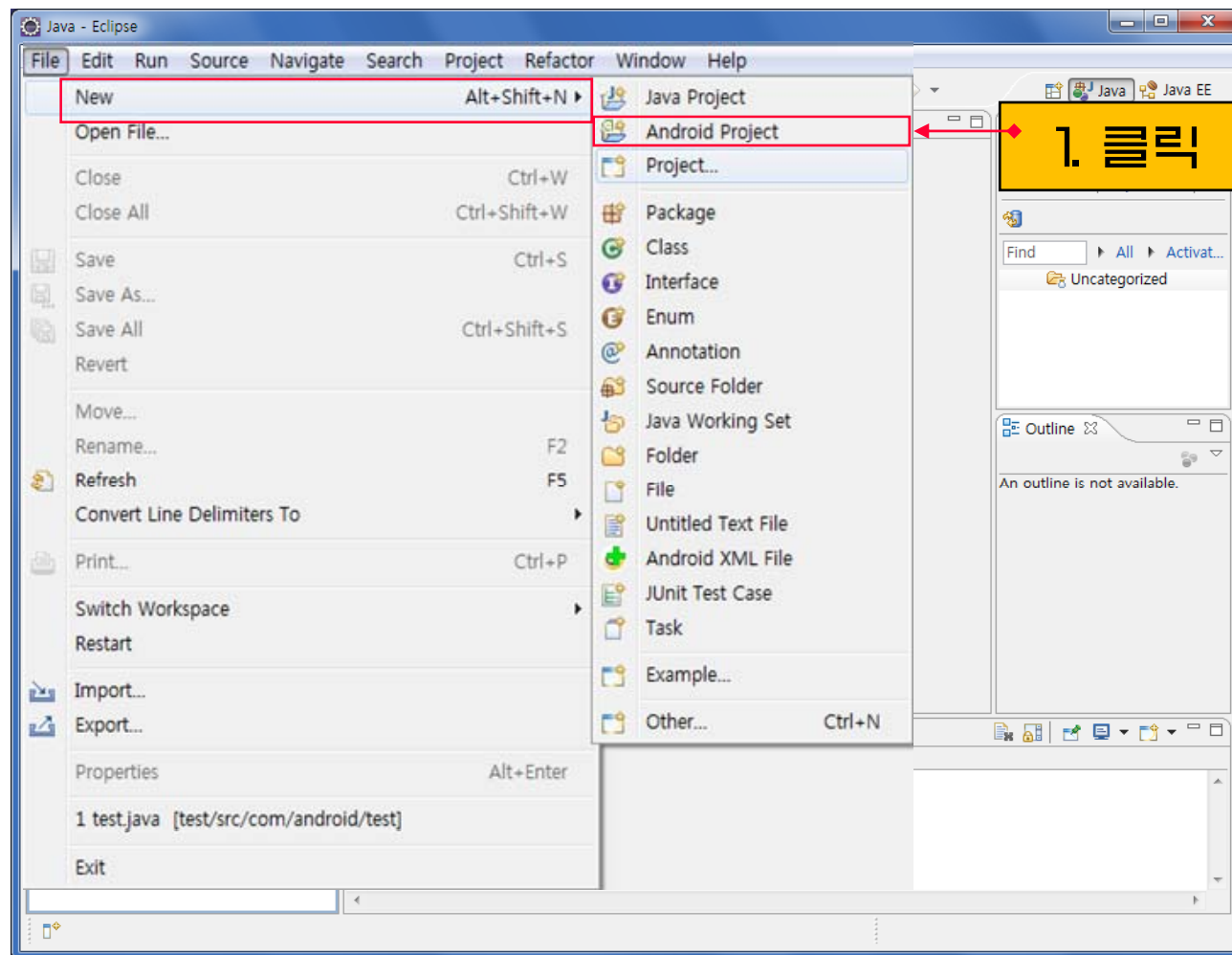




Auto Complete Text View 구현 (1)

■ Android 프로젝트 생성

❖ 프로젝트 명 : Android_AutoComplete





Auto Complete Text View 구현 (2)

New Android Project

Creates a new Android Project resource.

Project name:

Contents

- ☒ Create new project in workspace
- ☐ Create project from existing source
- ☒ Use default location

Location:

☐ Create project from existing sample

Samples:

Build Target

Target Name	Vendor	Platform	API ...
<input type="checkbox"/> Android 1.1	Android Open Source Project	1.1	2
<input type="checkbox"/> Android 2.0.1	Android Open Source Project	2.0.1	6
<input checked="" type="checkbox"/> Android 2.1	Android Open Source Project	2.1	7
<input type="checkbox"/> Google APIs	Google Inc.	2.0.1	6
<input type="checkbox"/> Google APIs	Google Inc.		

Standard Android platform 2.1

Properties

Application name:

Package name:

☒ Create Activity:

Min SDK Version:

2. Android_AutoComplete 입력

3. 클릭

4. Android_AutoComplete 입력

5. com.inhatec.android_AutoComplete 입력

6. Android_AutoComplete 입력

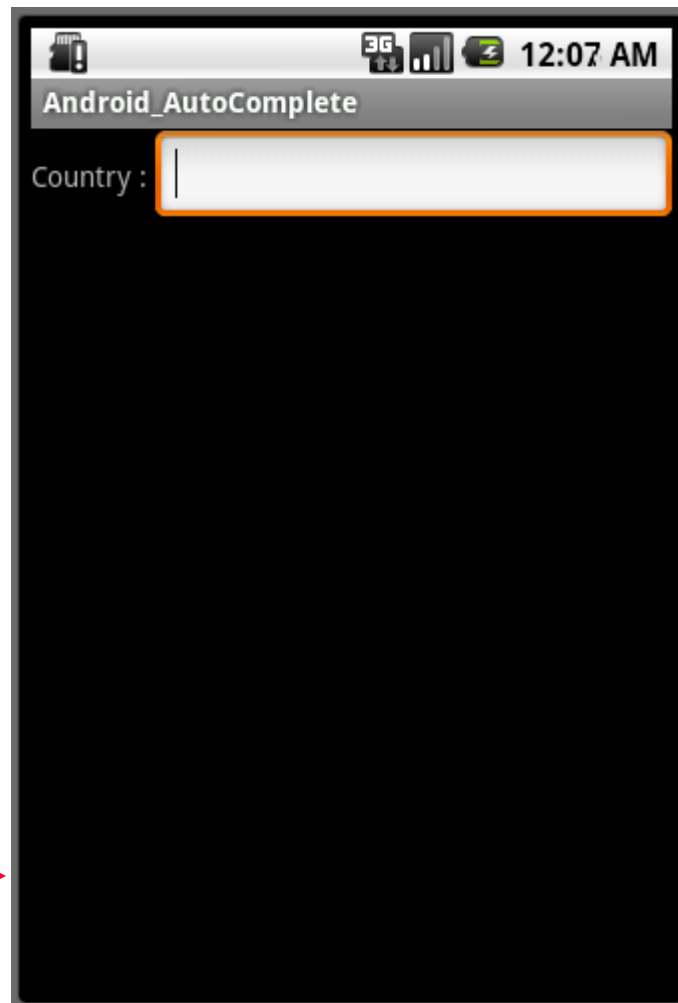
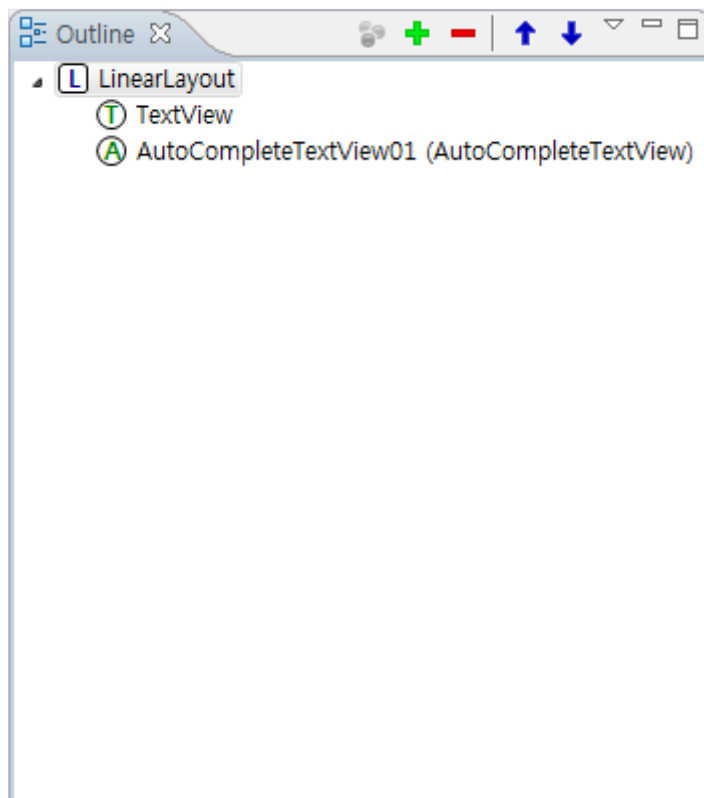
7. 클릭





Auto Complete Text View 구현 (3)

■ UI 설계

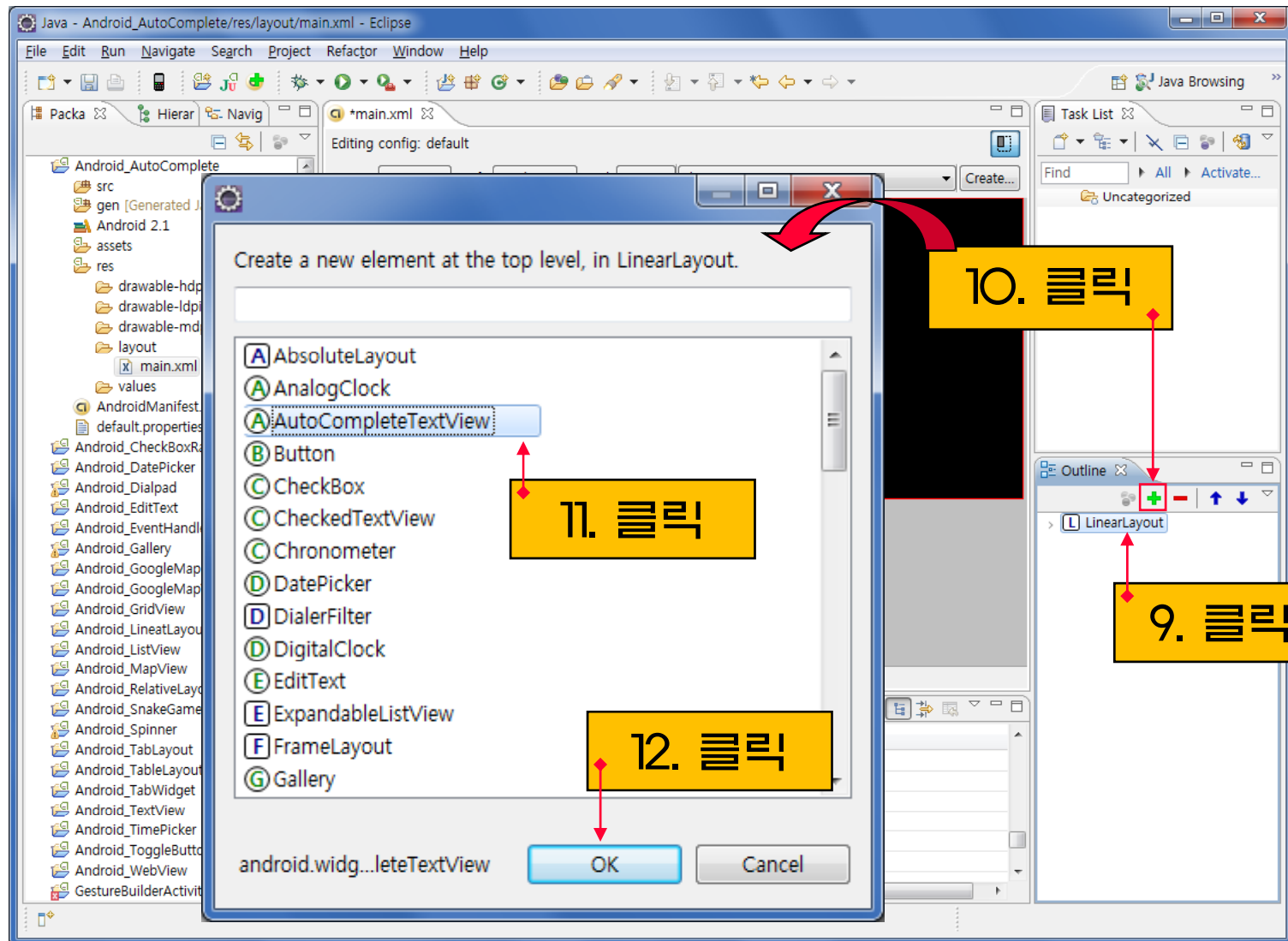


8. UI 설계 및 속성 지정



Auto Complete Text View 구현 (4)

❖ AutoCompleteTextView 추가





Auto Complete Text View 구현 (5)

❖ Linear Layout, TextView, AutoCompleteTextView 속성 지정

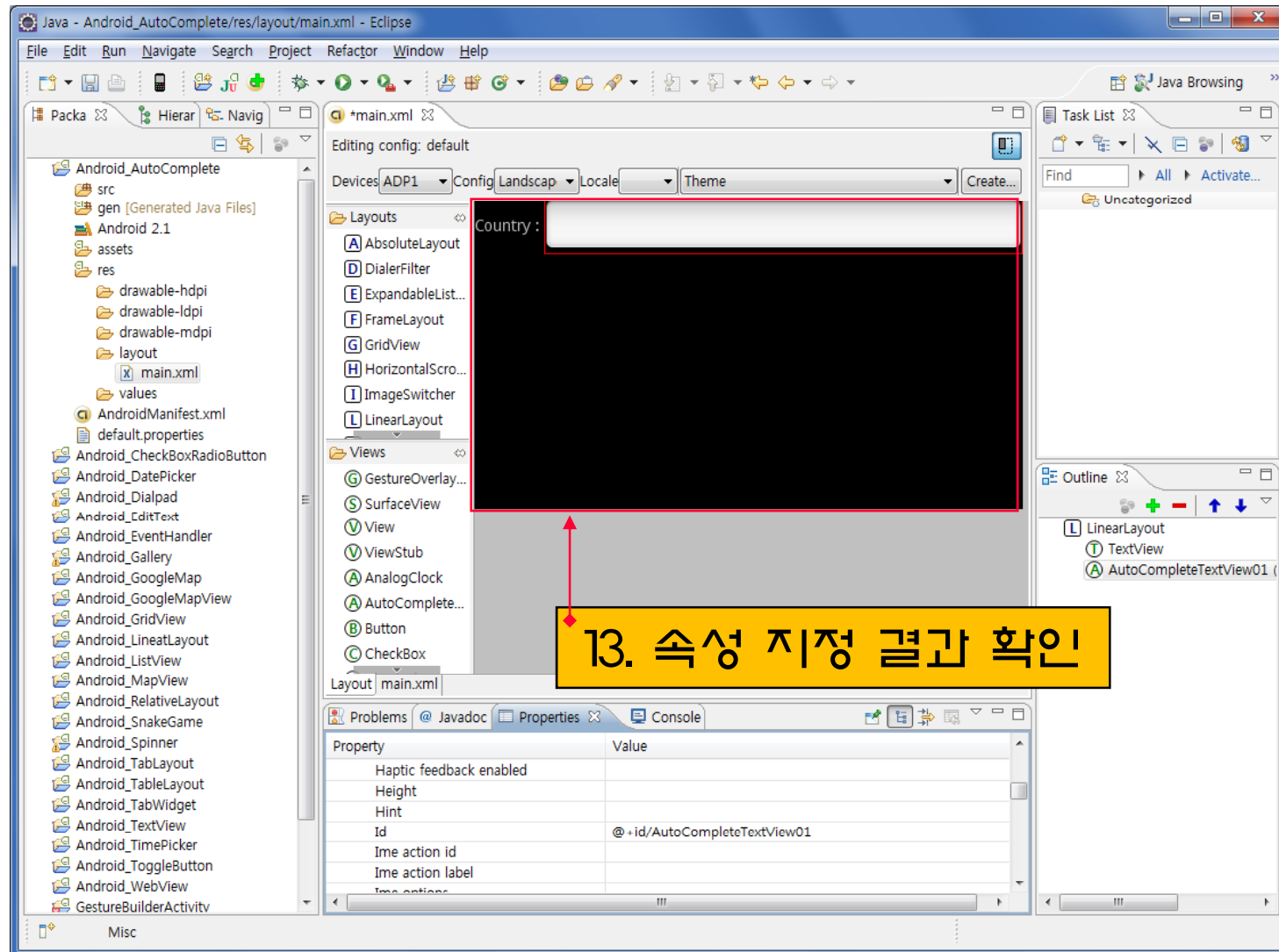
컨트롤	속성 지정
Linear Layout	<ul style="list-style-type: none">• xmlns:android="http://schemas.android.com/apk/res/android"• android:layout_width="fill_parent"• android:layout_height="wrap_content"• android:orientation="horizontal"
TextView	<ul style="list-style-type: none">• android:layout_height="wrap_content"• android:layout_width="wrap_content"• android:text="Country : "
AutoComplete TextView	<ul style="list-style-type: none">• android:id="@+id/AutoCompleteTextView01"• android:layout_height="wrap_content"• android:layout_width="fill_parent"





Auto Complete Text View 구현 (6)

❖ 속성 지정 결과



13. 속성 지정 결과 확인



Auto Complete Text View 구현 (7)

■ Map View 추가

❖ Main.xml 수정

```
*main.xml X
1<?xml version="1.0" encoding="utf-8"?>
2<LinearLayout
3    xmlns:android="http://schemas.android.com/apk/res/android"
4    android:layout_width="fill_parent"
5    android:layout_height="wrap_content"
6    android:orientation="horizontal">
7    <TextView
8        android:layout_height="wrap_content"
9        android:layout_width="wrap_content"
10       android:text="Country : "/>
11    <AutoCompleteTextView
12        android:id="@+id/AutoCompleteTextView01"
13        android:layout_height="wrap_content"
14        android:layout_width="fill_parent">
15    </AutoCompleteTextView>
16</LinearLayout>
```

14. XML code 수정 확인





Auto Complete Text View 구현 (8)

❖ Main.xml 저장

15. 클릭

16. 클릭

Save Resource

'main.xml' has been modified. Save changes?

Yes No Cancel

Android GoogleMap
Android GoogleMapView
Android GridView
Android LinearLayout
Android ListView
Android MapView
Android RelativeLayout
Android SnakeGame
Android Spinner
Android TabLayout
Android TableLayout
Android TabWidget
Android TextView
Android TimePicker
Android ToggleButton
Android WebView
GestureBuilderActivity

Property Value

Property	Value
AutoCompleteTextView	
Auto link	
Background	
Buffer type	
Clickable	
Completion hint	
Completion hint view	
Completion threshold	



Auto Complete Text View 구현 (9)

■ Android_AutoCompleteTextView.java

```
*Android_AutoComplete.java
1 package com.inhatc.android_AutoComplete;
2
3 import android.app.Activity;
4 import android.os.Bundle;
5 import android.widget.ArrayAdapter;
6 import android.widget.AutoCompleteTextView;
7
8 public class Android AutoComplete extends Activity {
9     AutoCompleteTextView objAutoCTV;    //AutoCompleteTextView 객체 선언
10    ArrayAdapter objADT;                 //ArrayAdapter 객체 선언
11    /** Called when the activity is first created. */
12    @Override
13    public void onCreate(Bundle savedInstanceState) {
14        super.onCreate(savedInstanceState);
15        setContentView(R.layout.main);
16
17        objAutoCTV = (AutoCompleteTextView) findViewById(R.id.AutoCompleteTextView01);
18        objADT = new ArrayAdapter(this,
19                                android.R.layout.simple_dropdown_item_1line, COUNTRIES);
20        objAutoCTV.setAdapter(objADT);
21    }
}
```

17. Coding



Auto Complete Text View 구현 (10)

❖ COUNTRIES[] 배열 지정

◆ 국가명 입력

```
*Android_AutoComplete.java X
22 static final String[] COUNTRIES = new String[] {
23     "Afghanistan", "Albania", "Algeria", "American Samoa", "Andorra",
24     "Angola", "Anguilla", "Antarctica", "Antigua and Barbuda", "Argentina",
25     "Armenia", "Aruba", "Australia", "Austria", "Azerbaijan",
26     "Bahrain", "Bangladesh", "Barbados", "Belarus", "Belgium",
27     "Belize", "Benin", "Bermuda", "Bhutan", "Bolivia",
28     "Bosnia and Herzegovina", "Botswana", "Bouvet Island", "Brazil", "British Indian Ocean Territory",
29     "British Virgin Islands", "Brunei", "Bulgaria", "Burkina Faso", "Burundi",
30     "Cote d'Ivoire", "Cambodia", "Cameroon", "Canada", "Cape Verde",
31     "Cayman Islands", "Central African Republic", "Chad", "Chile", "China",
32     "Christmas Island", "Cocos (Keeling) Islands", "Colombia", "Comoros", "Congo",
33     "Cook Islands", "Costa Rica", "Croatia", "Cuba", "Cyprus", "Czech Republic",
34     "Democratic Republic of the Congo", "Denmark", "Djibouti", "Dominica", "Dominican Republic",
35     "East Timor", "Ecuador", "Egypt", "El Salvador", "Equatorial Guinea", "Eritrea",
36     "Estonia", "Ethiopia", "Faeroe Islands", "Falkland Islands", "Fiji", "Finland",
37     "Former Yugoslav Republic of Macedonia", "France", "French Guiana", "French Polynesia",
38     "French Southern Territories", "Gabon", "Georgia", "Germany", "Ghana", "Gibraltar",
39     "Greece", "Greenland", "Grenada", "Guadeloupe", "Guam", "Guatemala", "Guinea", "Guinea-Bissau",
40     "Guyana", "Haiti", "Heard Island and McDonald Islands", "Honduras", "Hong Kong", "Hungary",
41     "Iceland", "India", "Indonesia", "Iran", "Iraq", "Ireland", "Israel", "Italy", "Jamaica",
42     "Japan", "Jordan", "Kazakhstan", "Kenya", "Kiribati", "Kuwait", "Kyrgyzstan", "Laos",
43     "Latvia", "Lebanon", "Lesotho", "Liberia", "Libya", "Liechtenstein", "Lithuania", "Luxembourg",
44     "Macau", "Madagascar", "Malawi", "Malaysia", "Maldives", "Mali", "Malta", "Marshall Islands",
45     "Martinique", "Mauritania", "Mauritius", "Mayotte", "Mexico", "Micronesia", "Moldova",
46     "Monaco", "Mongolia", "Montserrat", "Morocco", "Mozambique", "Myanmar", "Namibia",
47     "Nauru", "Nepal", "Netherlands", "Netherlands Antilles", "New Caledonia", "New Zealand",
48     "Nicaragua", "Niger", "Nigeria", "Niue", "Norfolk Island", "North Korea", "Northern Marianas",
49     "Norway", "Oman", "Pakistan", "Palau", "Panama", "Papua New Guinea", "Paraguay", "Peru",
```

18. Coding



Auto Complete Text View 구현 (11)

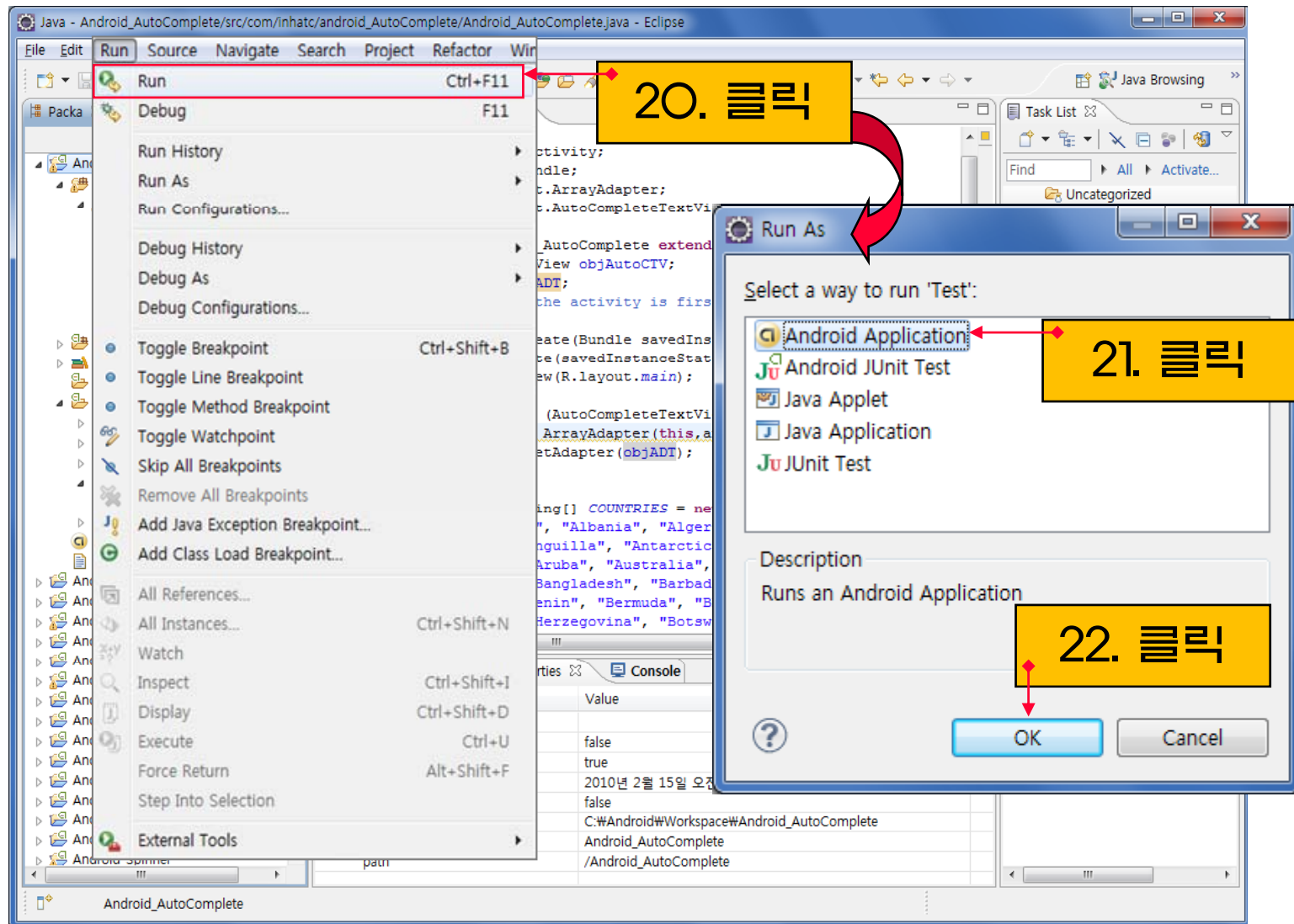
```
*Android_AutoComplete.java
49     "Norway", "Oman", "Pakistan", "Palau", "Panama", "Papua New Guinea", "Paraguay", "Peru",
50     "Philippines", "Pitcairn Islands", "Poland", "Portugal", "Puerto Rico", "Qatar",
51     "Reunion", "Romania", "Russia", "Rwanda", "Sgo Tome and Principe", "Saint Helena",
52     "Saint Kitts and Nevis", "Saint Lucia", "Saint Pierre and Miquelon",
53     "Saint Vincent and the Grenadines", "Samoa", "San Marino", "Saudi Arabia", "Senegal",
54     "Seychelles", "Sierra Leone", "Singapore", "Slovakia", "Slovenia", "Solomon Islands",
55     "Somalia", "South Africa", "South Georgia and the South Sandwich Islands", "South Korea",
56     "Spain", "Sri Lanka", "Sudan", "Suriname", "Svalbard and Jan Mayen", "Swaziland", "Sweden",
57     "Switzerland", "Syria", "Taiwan", "Tajikistan", "Tanzania", "Thailand", "The Bahamas",
58     "The Gambia", "Togo", "Tokelau", "Tonga", "Trinidad and Tobago", "Tunisia", "Turkey",
59     "Turkmenistan", "Turks and Caicos Islands", "Tuvalu", "Virgin Islands", "Uganda",
60     "Ukraine", "United Arab Emirates", "United Kingdom",
61     "United States", "United States Minor Outlying Islands", "Uruguay", "Uzbekistan",
62     "Vanuatu", "Vatican City", "Venezuela", "Vietnam", "Wallis and Futuna", "Western Sahara",
63     "Yemen", "Yugoslavia", "Zambia", "Zimbabwe"
64     };
65 }
```

19. Coding



Auto Complete Text View 구현 (12)

❖ Android 프로젝트 실행



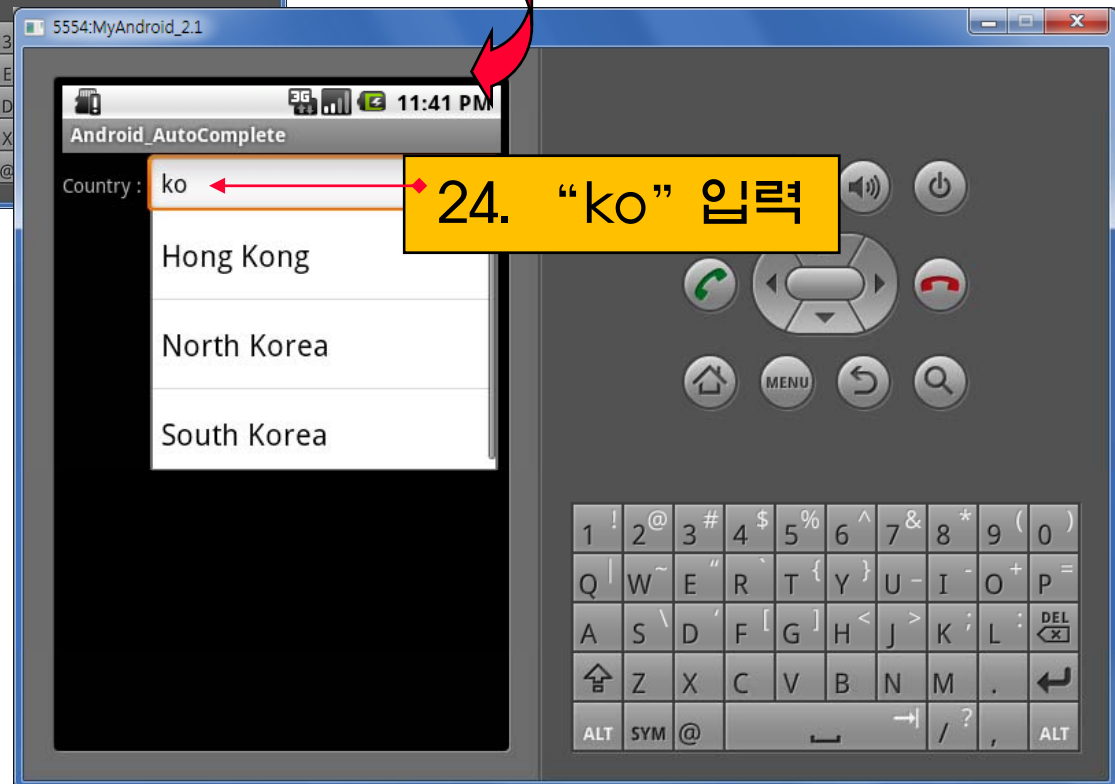


Auto Complete Text View 구현 (13)

❖ 실행 결과



23. 클릭

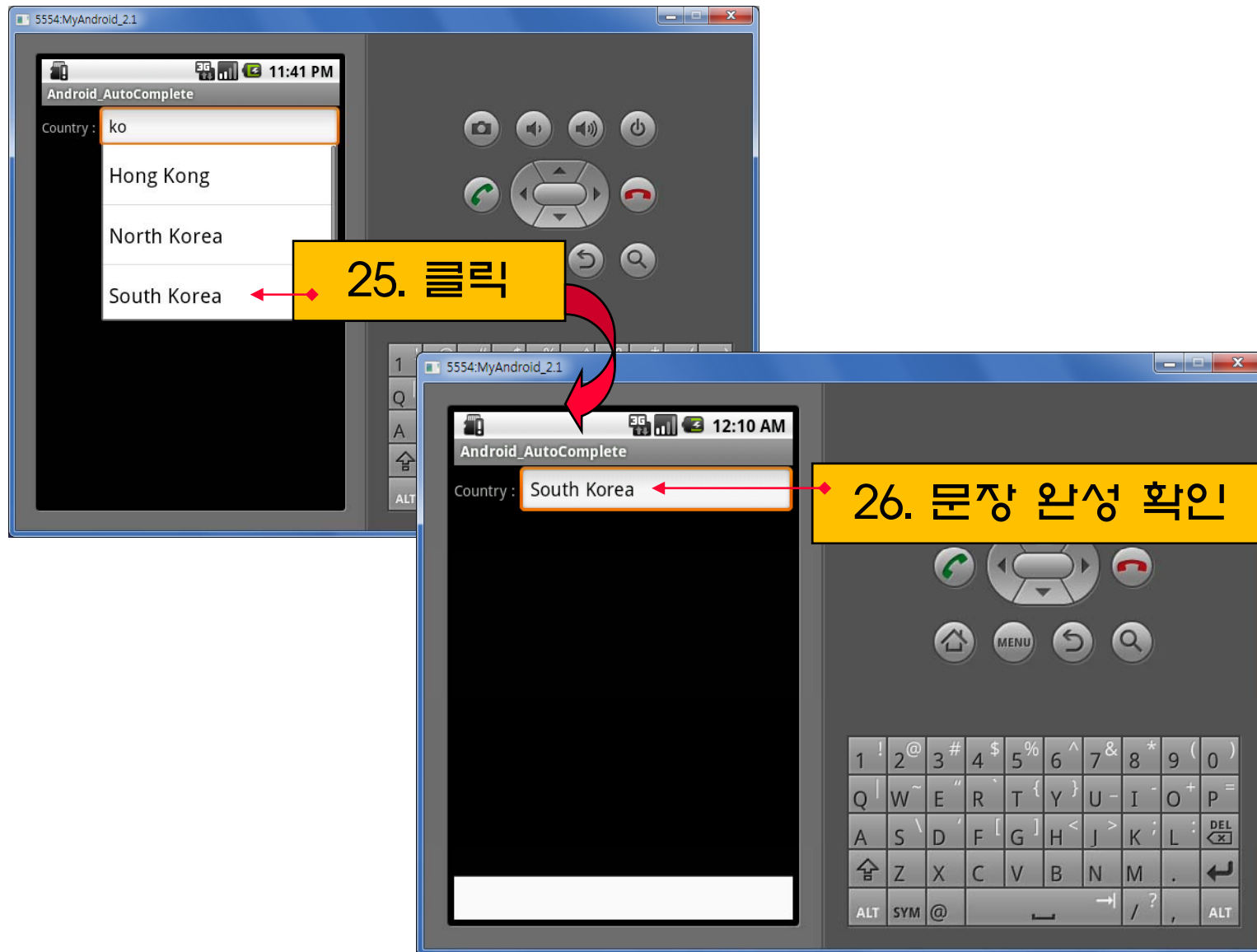


24. "ko" 입력





Auto Complete Text View 구현 (14)





학습 요약

- Spinner
- ListView
- Auto Complete Text View

