

02

레이아웃 – Linear Layout



```

<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:orientation="vertical"
    android:layout_width="match_parent"
    android:layout_height="match_parent" >
    <TextView
        android:id="@+id/TextView01"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:background= "#ff000055" ← 1 배경색 설정
        android:padding="3px"
        android:text="여기에 사용자 이름을 입력하세요."
        android:textSize= "22sp" ← 2 크기 설정
        android:textStyle= "bold" ← 3 스타일 설정
        android:textColor= "#88ff8888" ← 4 색상 설정
        android:singleLine= "true" ← 5 한 줄 설정
        android:gravity="center" />
    </LinearLayout>

```



```

<RadioGroup
    android:id="@+id/radioGroup"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="horizontal"
    android:paddingLeft="5dp"
    android:paddingRight="5dp" >

    <RadioButton
        android:id="@+id/radioLeft"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_weight="1"
        android:text="남성"
        android:textColor="#ff000000"
        android:textStyle="bold"
        android:textSize="24dp" />

    <RadioButton
        android:id="@+id/radioRight"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_weight="1"
        android:text="여성"
        android:textColor="#ff000000"
        android:textStyle="bold"
        android:textSize="24dp" />

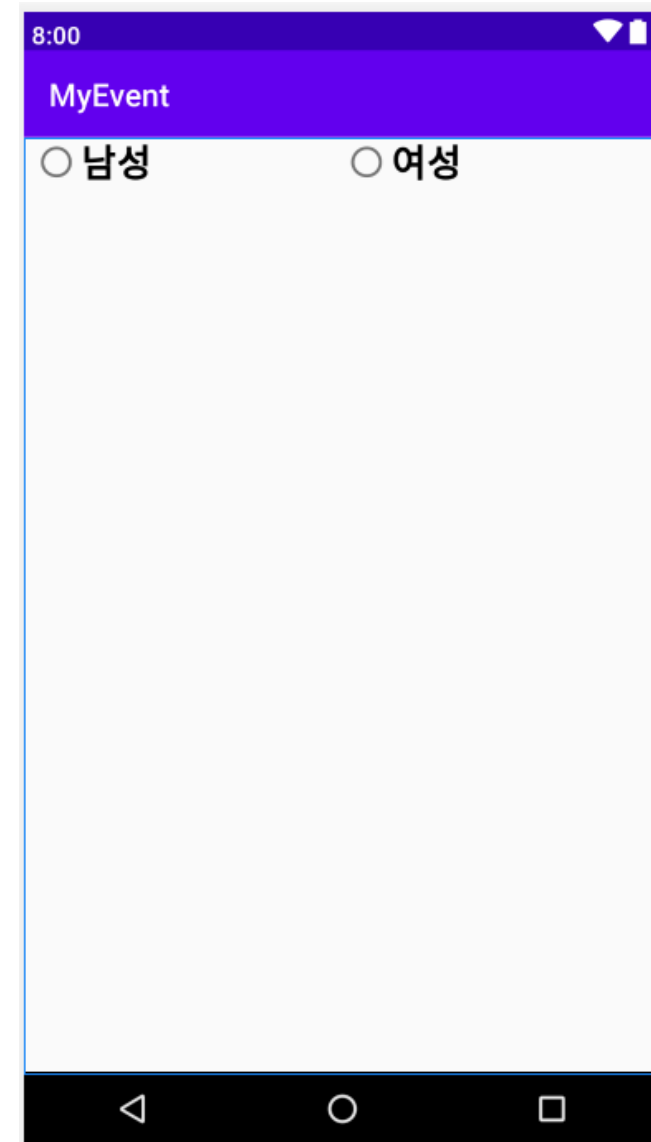
</RadioGroup>

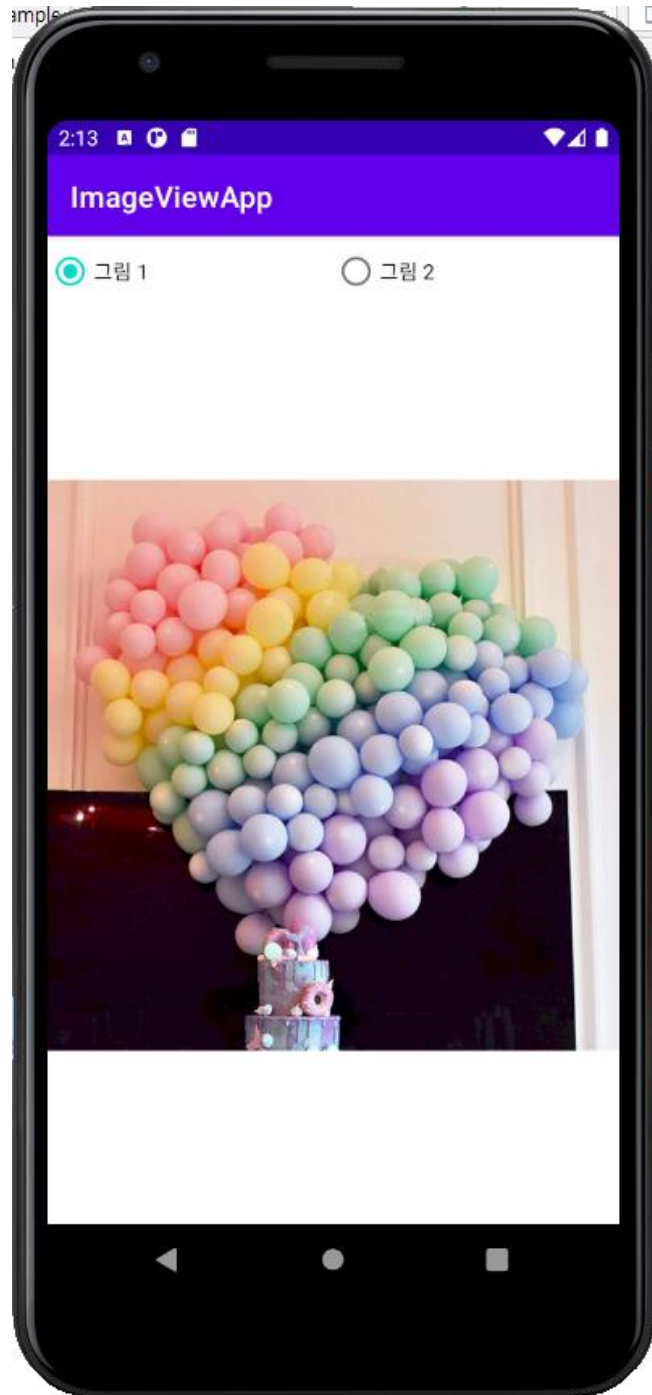
```

2 첫 번째 버튼

3 두 번째 버튼

1 라디오 그룹





```

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

    <RadioGroup
        android:id="@+id/radioGroup"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="horizontal">

        <RadioButton
            android:checked="true"
            android:id="@+id/radioLeft"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_weight="1"
            android:text="그림 1" />

        <RadioButton
            android:id="@+id/radioRight"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_weight="1"
            android:text="그림 2" />

    </RadioGroup>

```



```
<FrameLayout
    android:layout_width="match_parent"
    android:layout_height="0dp"
    android:layout_weight="1">

    <ImageView
        android:id="@+id/imageView"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        app:srcCompat="@drawable/balloon01" />

    <ImageView
        android:id="@+id/imageView2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:visibility="invisible"
        app:srcCompat="@drawable/balloon02" />

</FrameLayout>
</LinearLayout>
```

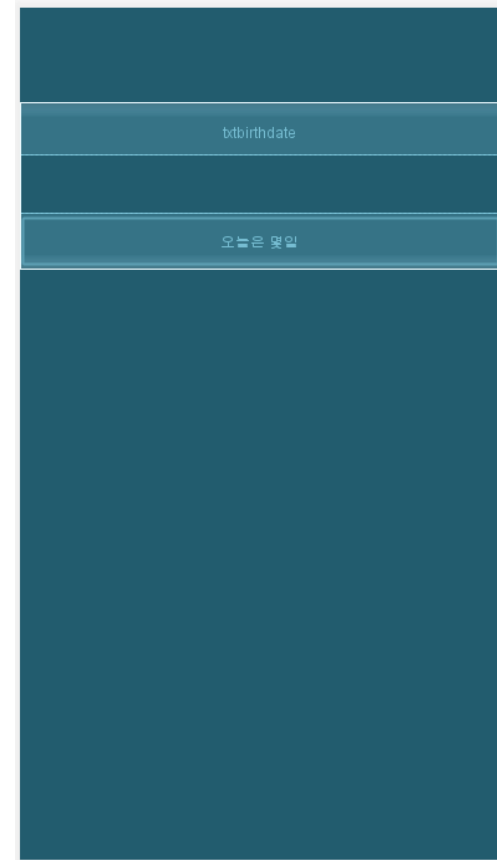
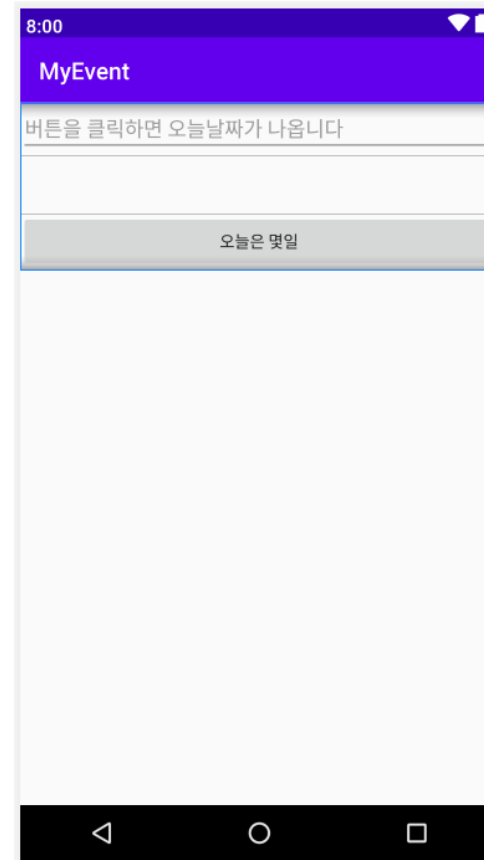
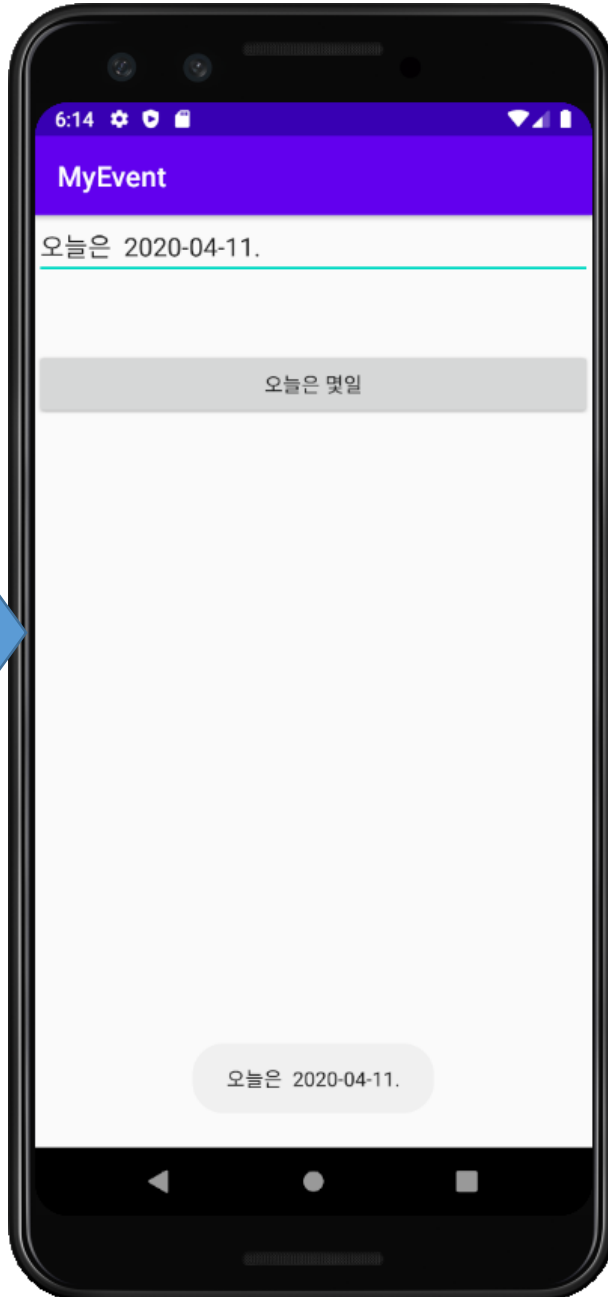
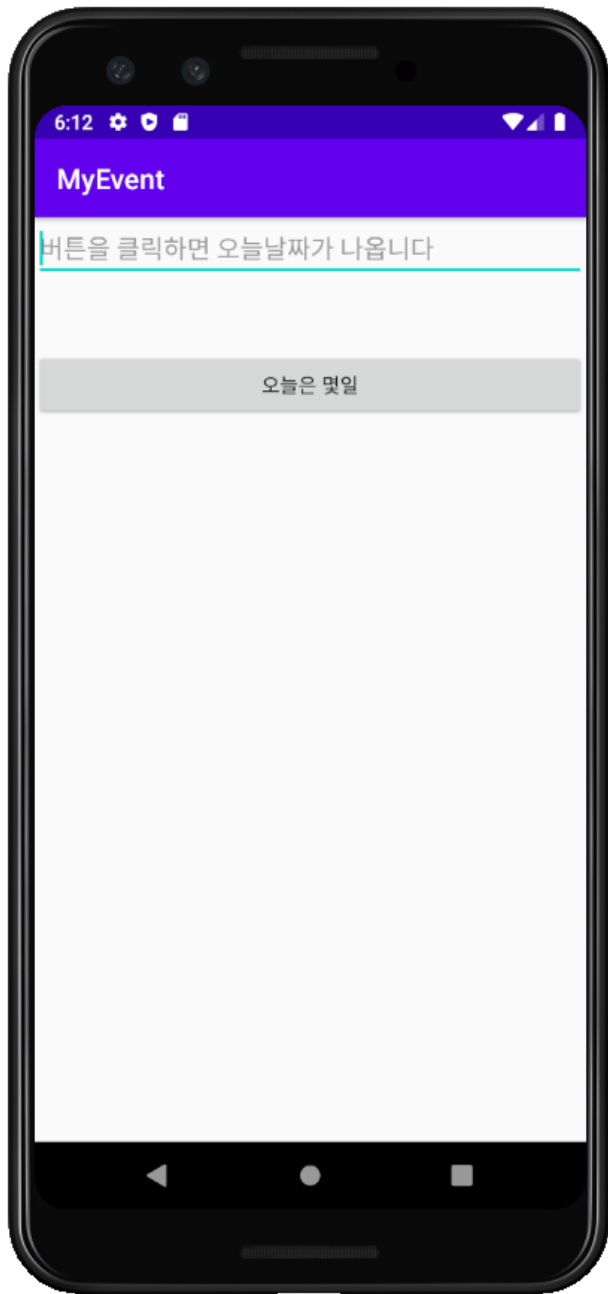


```

public class MainActivity extends AppCompatActivity {
    RadioGroup radioGroup;
    RadioButton radioLeft, radioRight;
    ImageView imageView, imageView2;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        imageView = findViewById(R.id.imageView);
        imageView2 = findViewById(R.id.imageView2);
        radioLeft = findViewById(R.id.radioLeft);
        radioRight = findViewById(R.id.radioRight);
        radioGroup = findViewById(R.id.radioGroup);
        radioGroup.setOnCheckedChangeListener(new RadioGroup.OnCheckedChangeListener() {
            @Override
            public void onCheckedChanged(RadioGroup group, int checkedId) {
                RadioButton select = (RadioButton)findViewById(checkedId);
                switch (select.getId()){
                    case R.id.radioLeft:
                        imageView.setVisibility(View.VISIBLE);
                        imageView2.setVisibility(View.INVISIBLE);
                        break;
                    case R.id.radioRight:
                        imageView.setVisibility(View.INVISIBLE);
                        imageView2.setVisibility(View.VISIBLE);
                        break;
                }
            }
        });
    }
}

```




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

    <EditText
        android:id="@+id/txtbirthdate"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:hint="버튼을 클릭하면 오늘날짜가 나옵니다" />

    <Button
        android:id="@+id/showbio"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_gravity="center_horizontal"
        android:layout_marginTop="50dp"
        android:text="오늘은 몇일" />

</LinearLayout>
```

```
public class MainActivity extends AppCompatActivity {

    Button showbio;
    EditText txtbirthdate;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        txtbirthdate=findViewById(R.id.txtbirthdate);
        showbio= findViewById(R.id.showbio);
        showbio.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {

                String st=String.format("오늘은 %s.",new Date());
                txtbirthdate.setText(st);
                Toast.makeText(getApplicationContext(),st,Toast.LENGTH_LONG).show();
            }
        });
    }
}
```

```
public class MainActivity extends AppCompatActivity {

    Button showbio;
    EditText txtbirthdate;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        txtbirthdate=findViewById(R.id.txtbirthdate);
        showbio= findViewById(R.id.showbio);
        showbio.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {

                Date day = new Date();
                String patternKorea = "yyyy-MM-dd";
                SimpleDateFormat p1 = new SimpleDateFormat(patternKorea);
                String st=String.format("오늘은 %s.",p1.format(day));
                txtbirthdate.setText(st);
                Toast.makeText(getApplicationContext(),st,Toast.LENGTH_LONG).show();
            }
        });
    }
}
```

■ Date 클래스

- Date클래스는 현재 날짜와 시각 정보를 제공.
- 국제화에 맞지 않아 대부분의 메서드는 현재 폐기 중
- 주로 하위 호환성이나 간단한 날짜 정보를 원할 때만 사용

■ Calendar 클래스

- 지역이나 문화에 따라 달력을 표시하는 방식이 다르기 때문에 추상 클래스로 되어 있음
- 표준 달력을 사용한다면 다음과 같이 객체 생성

```
Calendar now = Calendar.getInstance();
```

■ Calendar 클래스

- Calendar 클래스가 제공하는 정수 타입의 상수

AM	AM_PM	PM	DATE
JANUARY	FEBRUARY	...	DECEMBER
SUNDAY	MONDAY	...	SATURDAY
MINUTE	HOUR	MONTH	YEAR
SECOND	HOUR_OF_DAY	WEEK_OF_MONTH	WEEK_OF_YEAR
DAY_OF_WEEK	DAY_OF_MONTH	DAY_OF_YEAR	DAY_OF_WEEK_IN_MONTH

- MONTH는 0~11사이의 정수

■ Calendar 클래스

- Calendar 클래스가 제공하는 주요 메서드

메서드	설명
boolean after(Object when)	주어진 시간보다 뒤쪽이면 true를 반환한다.
boolean before(Object when)	주어진 시간보다 앞쪽이면 true를 반환한다.
void clear(int field)	지정된 필드를 미정의 상태로 변경한다.
compareTo(Calendar anotherCalendar)	2개의 Calendar 객체를 비교한다.
int get(int fields)	주어진 필드 값을 반환한다.
int getFirstDayOfWeek()	첫 날이 무슨 요일인지 반환한다.
static Calendar getInstance()	현재 시각을 표시하는 Calendar 객체를 반환한다.
Date getTime()	Calendar 객체를 Date 객체로 변환한다.
void set(int field, int value)	주어진 필드를 주어진 값으로 변경한다.
void set(int year, int month, int date)	연, 월, 일 값을 변경한다.
void setTime(Date date)	Date 객체로 Calendar 객체를 설정한다.

```
01 import java.util.Arrays;
02 import java.util.Calendar;
03 import java.util.GregorianCalendar;
04 public class Date2 {
05     public static void main(String[] args) {
06         Calendar a = Calendar.getInstance();
07         Calendar b = new GregorianCalendar();
08         System.out.println(a.toString());
09         System.out.println(b.toString());
10     }
11 }
```

실행결과:

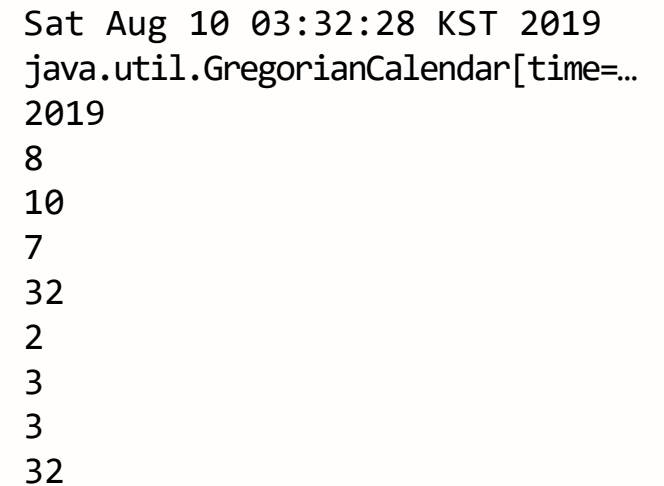
java.util.GregorianCalendar[time=1556624505186,areFieldsSet=true,areAllFieldsSet=true,lenient=true,zone=sun.util.calendar.ZoneInfo[id="Asia/Seoul",offset=32400000,dstSavings=0,useDaylight=false,transitions=22,lastRule=null],firstDayOfWeek=1,minimalDaysInFirstWeek=1,ERA=1,YEAR=2019,MONTH=3,WEEK_OF_YEAR=18,WEEK_OF_MONTH=5,DAY_OF_MONTH=30,DAY_OF_YEAR=120,DAY_OF_WEEK=3,DAY_OF_WEEK_IN_MONTH=5,AM_PM=1,HOUR=8,HOUR_OF_DAY=20,MINUTE=41,SECOND=45,MILLISECOND=186,ZONE_OFFSET=32400000,DST_OFFSET=0]

java.util.GregorianCalendar[time=1556624505207,areFieldsSet=true,areAllFieldsSet=true,lenient=true,zone=sun.util.calendar.ZoneInfo[id="Asia/Seoul",offset=32400000,dstSavings=0,useDaylight=false,transitions=22,lastRule=null],firstDayOfWeek=1,minimalDaysInFirstWeek=1,ERA=1,YEAR=2019,MONTH=3,WEEK_OF_YEAR=18,WEEK_OF_MONTH=5,DAY_OF_MONTH=30,DAY_OF_YEAR=120,DAY_OF_WEEK=3,DAY_OF_WEEK_IN_MONTH=5,AM_PM=1,HOUR=8,HOUR_OF_DAY=20,MINUTE=41,SECOND=45,MILLISECOND=207,ZONE_OFFSET=32400000,DST_OFFSET=0]

예제 : Calendar 클래스

16 |

```
01 import java.util.Calendar;
02 import java.util.Date;
03
04 public class CalendarDemo {
05     public static void main(String[] args) {
06         Date now = new Date();
07         System.out.println(now);
08
09         Calendar c = Calendar.getInstance();
10         System.out.println(c);
11
12         System.out.println(c.get(Calendar.YEAR));
13         System.out.println(c.get(Calendar.MONTH) + 1);
14
15         System.out.println(c.get(Calendar.DAY_OF_MONTH));
16         System.out.println(c.get(Calendar.DAY_OF_WEEK));
17         System.out.println(c.get(Calendar.WEEK_OF_YEAR));
18         System.out.println(c.get(Calendar.WEEK_OF_MONTH));
19
20         System.out.println(c.get(Calendar.HOUR));
21         System.out.println(c.get(Calendar.HOUR_OF_DAY));
22         System.out.println(c.get(Calendar.MINUTE));
23     }
24 }
```



Sat Aug 10 03:32:28 KST 2019
java.util.GregorianCalendar[time=...
2019
8
10
7
32
2
3
3
32


```

01 import java.util.Calendar;
02
03 public class Date2 {
04     public static void main(String[] args) {
05         Calendar a = Calendar.getInstance();
06
07         int year = a.get(Calendar.YEAR);
08         int month = a.get(Calendar.MONTH)+1;
09         int date = a.get(Calendar.DATE);
10
11         System.out.println(year+"년"+month+"월"+date+"일");
12         System.out.println(a.get(Calendar.DAY_OF_WEEK));
13         //1=일요일 2=월요일... 7=토요일
14         System.out.println("이번년도에서 오늘이 몇 일째인가?");
15         System.out.println(a.get(Calendar.DAY_OF_YEAR));
16         //이번년도의 몇일인지
17         System.out.println("이번달은 몇일까지 있는가?");
18         System.out.println(a.getActualMaximum(Calendar.DATE));
19     }
20 }

```

실행결과:

2019년4월30일

3

이번년도에서 오늘이 몇 일째인가?

120

이번달은 며칠까지 있는가?

30

```
01 import java.util.Calendar;
02
03 public class Date3 {
04     public static void main(String[] args) {
05
06         Calendar today = Calendar.getInstance();
07         Calendar endOfYear = Calendar.getInstance();
08         Calendar Christmas = Calendar.getInstance();
09
10         endOfYear.set(Calendar.MONTH, 11); // 12월
11         endOfYear.set(Calendar.DATE, 31);
12
13         long diff = endOfYear.getTimeInMillis() - today.getTimeInMillis();
14         System.out.println("연말까지 남은 날: "+diff/(24*60*60*1000)+"일");
15         Christmas.set(2019, 11, 25); // 2019년 12월 25일
16         diff = Christmas.getTimeInMillis() - today.getTimeInMillis();
17         System.out.println("크리스마스까지 남은 날: " + diff/(24*60*60*1000)+"일");
18     }
19 }
```

실행결과: (2019년 4월30일 기준)

연말까지 남은 날: 245일

크리스마스까지 남은 날: 239일

```
01 import java.util.Date;
02
03 public class Date4 {
04     public static void main(String[] args) {
05
06         Date today = new Date();
07         System.out.println(today);
08
09         long a = System.currentTimeMillis();
10         Date today2 = new Date();
11         System.out.println(today2);
12     }
13 }
```

실행결과: (2019년 4월30일 기준)
Tue Apr 30 21:09:36 KST 2019
Tue Apr 30 21:09:36 KST 2019

```
1 import java.util.Calendar;
2 import java.util.Date;
3
4 public class Date5 {
5     public static void main(String[] args) {
6
7         //Calendar->Date
8         Calendar calendar = Calendar.getInstance();
9         Date date = calendar.getTime();
10        System.out.println(date);
11
12        //Date->Calendar
13        calendar.setTime(date);
14
15        //Calendar->long
16        long time = calendar.getTimeInMillis();
17        System.out.println(time);
18
19        //long->Calendar
20        calendar.setTimeInMillis(time);
21    }
22 }
```

실행결과: (2019년 4월30일 기준)
Tue Apr 30 21:29:28 KST 2019
1556627368981

```
1 import java.text.SimpleDateFormat;
2 import java.util.Date;
3
4 public class Format2 {
5     public static void main(String[] args) {
6         Date day = new Date();
7         String patternKorea = "yyyy-MM-dd";
8         String patternUSA = "MM-dd-yyyy";
9         String patternUK = "dd-MM-yyyy";
10        String pattern1 = "E요일 HH시 mm분 ss초";
11
12        SimpleDateFormat p1 = new SimpleDateFormat(patternKorea);
13        SimpleDateFormat p2 = new SimpleDateFormat(patternUSA);
14        SimpleDateFormat p3 = new SimpleDateFormat(patternUK);
15        SimpleDateFormat p4 = new SimpleDateFormat(pattern1);
16
17        System.out.println("현재날짜"+day);
18        System.out.println("한국형식(년,월,일):"+p1.format(day));
19        System.out.println("미국형식(월,일,년):"+p2.format(day));
20        System.out.println("영국형식(일,월,년):"+p3.format(day));
21        System.out.println(p4.format(day));
22    }
23 }
```

실행결과: (2019년 4월30일 기준)
현재날짜Tue Apr 30 21:19:54 KST 2019
한국형식(년,월,일):2019-04-30
미국형식(월,일,년):04-30-2019
영국형식(일,월,년):30-04-2019
화요일 21시 19분 54초



Component Tree

LinearLayout (vertical)

Ab txtCent "섭씨(oC)"

Ab editCent "36.5"

Ab editFha "0.0"

Ab txtFha "화씨(oF)"

radio_Group (vertical)

radio_Fha "섭씨를 화씨(...)"

radio_Cent "화씨를 섭씨(...)"

btn_convert "convert"

btn_clear "CLEAR"

8:00

ThermoExam

섭씨(oC)

36.5

0.0

화씨(oF)

☐ 섭씨를 화씨(oF)로

☐ 화씨를 섭씨(oC)로

CONVERT

CLEAR

섭씨(oC)

editCent

editFha

화씨(oF)

☐ 섭씨를 화씨(oF)로

☐ 화씨를 섭씨(oC)로

CONVERT

CLEAR

```

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

    <TextView
        android:id="@+id/txtCent"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="섭씨(oC)"
        android:textSize="22sp"
        android:textStyle="bold" />

    <EditText
        android:id="@+id/editCent"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:textSize="20sp"
        android:textStyle="bold"
        android:text="36.5" />

    <EditText
        android:id="@+id/editFha"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:textSize="20sp"
        android:textStyle="bold"
        android:text="0.0" />

```

```

    <TextView
        android:id="@+id/txtFha"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="화씨(oF)"
        android:textSize="22sp"
        android:textStyle="bold" />

    <RadioGroup
        android:id="@+id/radio_Group"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="vertical">
        <RadioButton
            android:id="@+id/radio_Fha"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:text="섭씨를 화씨(oF)로" />
        <RadioButton
            android:id="@+id/radio_Cent"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:text="화씨를 섭씨(oC)로" />
    </RadioGroup>

    <Button
        android:id="@+id/btn_convert"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="convert" />

    <Button
        android:id="@+id/btn_clear"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="CLEAR" />

```

```

</LinearLayout>

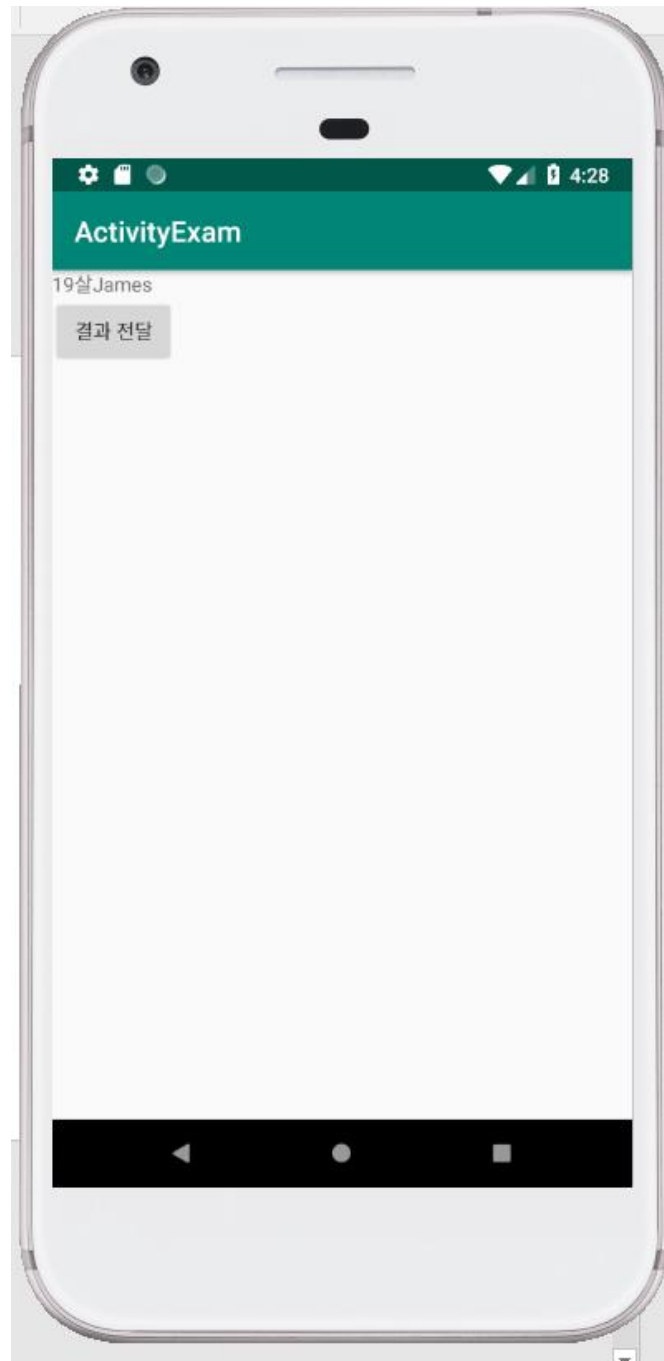
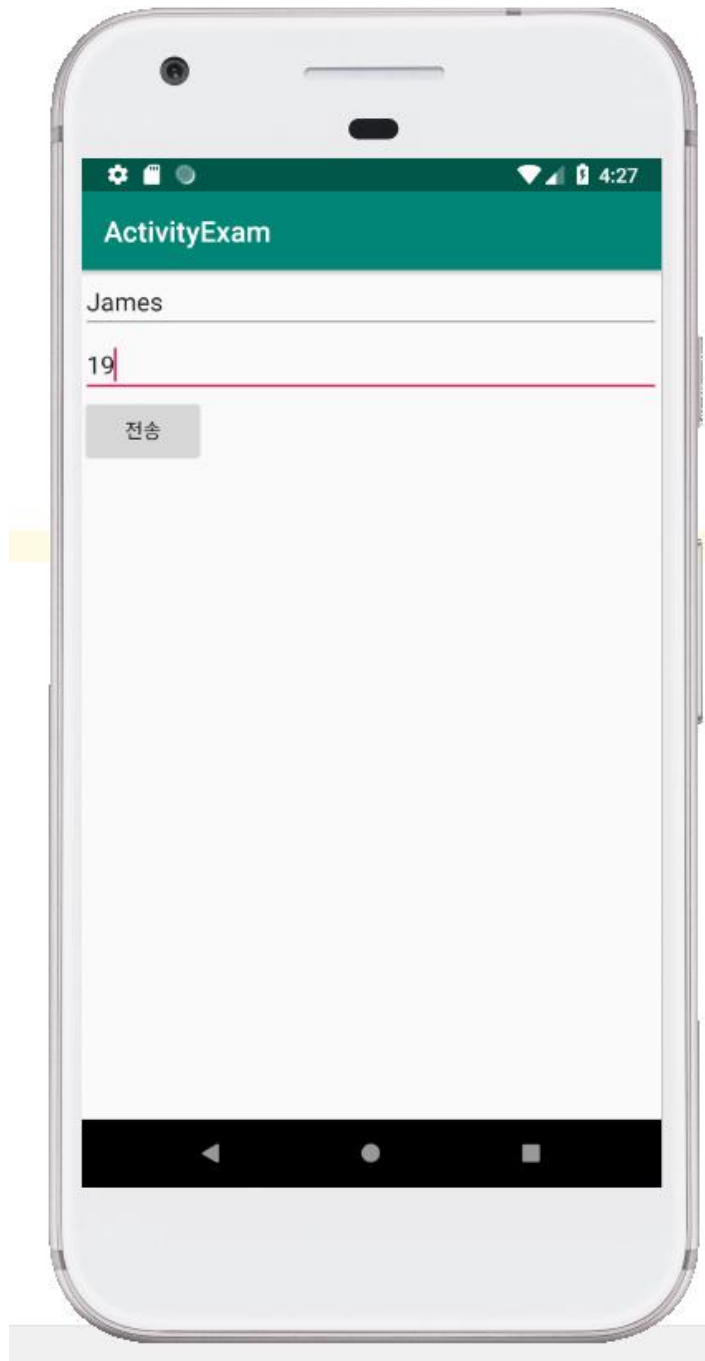
```



```
public class MainActivity extends AppCompatActivity {  
    EditText editCent, editFha;  
    RadioButton radio_Fha, radio_Cent;  
    Button btn_convert, btn_clear;  
  
    @Override  
    protected void onCreate(Bundle savedInstanceState) {  
        super.onCreate(savedInstanceState);  
        setContentView(R.layout.activity_main);  
  
        editCent = findViewById(R.id.editCent);  
        editFha = findViewById(R.id.editFha);  
        radio_Fha = findViewById(R.id.radio_Fha);  
        radio_Fha.setChecked(true);  
        radio_Cent = findViewById(R.id.radio_Cent);  
        btn_convert = findViewById(R.id.btn_convert);  
        btn_clear = findViewById(R.id.btn_clear);  
    }  
}
```

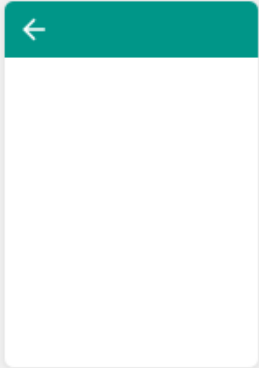
```
btn_convert.setOnClickListener(new View.OnClickListener() {  
    @Override  
    public void onClick(View v) {  
        if (radio_Fha.isChecked()) {  
            double val = Double.parseDouble(editCent.getText().toString());  
            double change_value = 9.0/5.0*val+32.0;  
            editFha.setText(String.format("%.2f", change_value));  
        }  
        else{  
            double val = Double.parseDouble(editFha.getText().toString());  
            double change_value = 5.0/9.0*(val-32);  
            editCent.setText(String.format("%.2f", change_value));  
        }  
    }  
});
```

```
btn_clear.setOnClickListener(new View.OnClickListener() {  
    @Override  
    public void onClick(View v) {  
        editCent.setText("0.0");  
        editFha.setText("0.0");  
    }  
});  
}
```



Create New Project

Name : ActivityExam



Empty Activity

Creates a new empty activity

Create New Project

Configure your project

Name
ActivityExam

Package name
com.example.activityexam

Save location
C:\Users\myHome-HEE1\AndroidStudioProjects\ActivityExam

Language
Java

Minimum API level
API 21: Android 5.0 (Lollipop)

i Your app will run on approximately 85.0% of devices.
[Help me choose](#)

☐ This project will support instant apps

☐ Use AndroidX artifacts

Previous Next Cancel **Finish**

```
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:orientation="vertical"
    android:layout_width="match_parent"
    android:layout_height="match_parent">

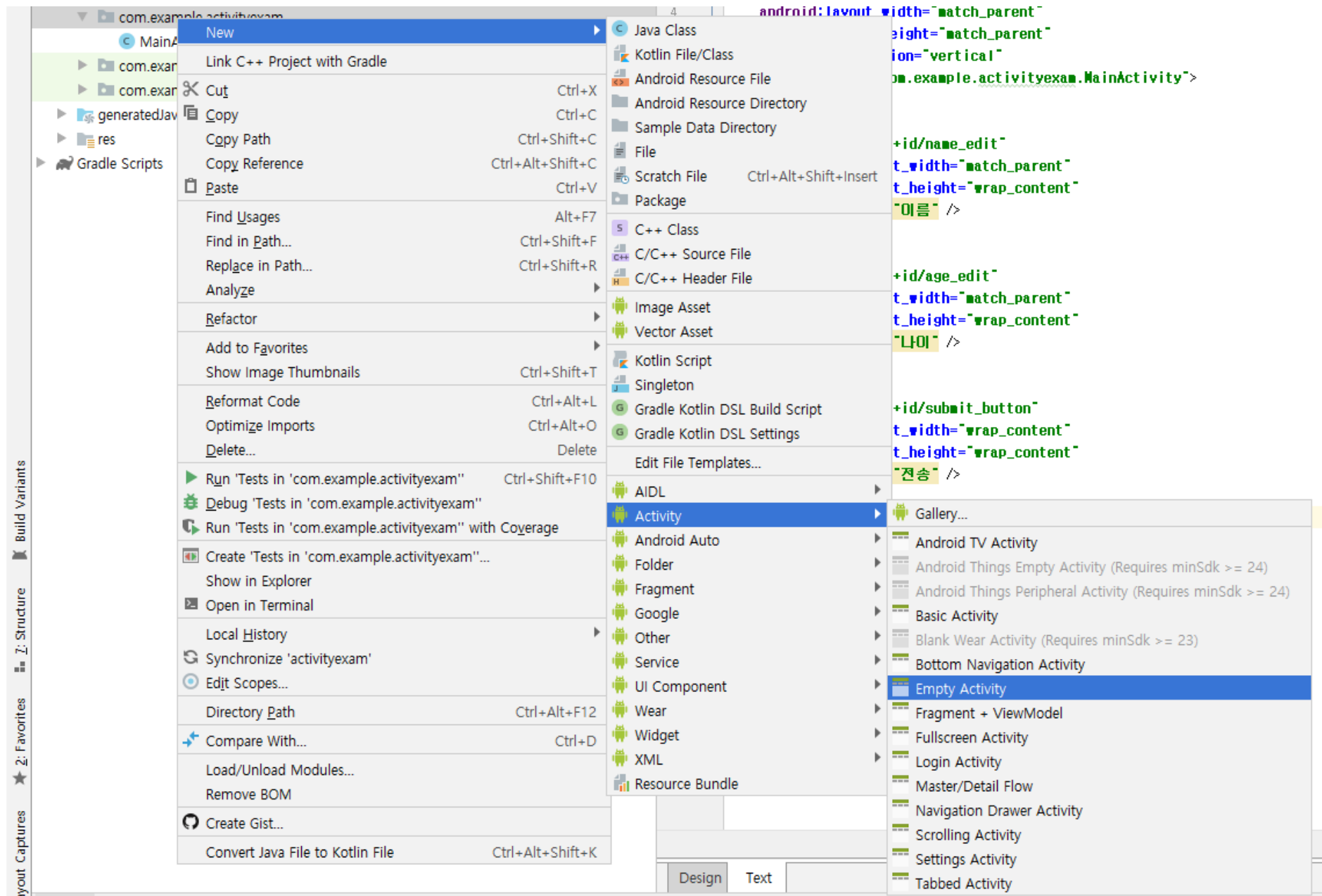
    <EditText
        android:id="@+id/edit_name"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:hint="이름" />


    <EditText
        android:id="@+id/edit_age"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:inputType="number"
        android:hint="나이" />


    <Button
        android:id="@+id/btn_submit"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="전송" />


</LinearLayout>
```






 New Android Activity

 Configure Activity



Creates a new empty activity



Activity Name:

☒ Generate Layout File

Layout Name:

☐ Launcher Activity

Package name:

Source Language:

The name of the activity class to create

Previous

Next

Cancel

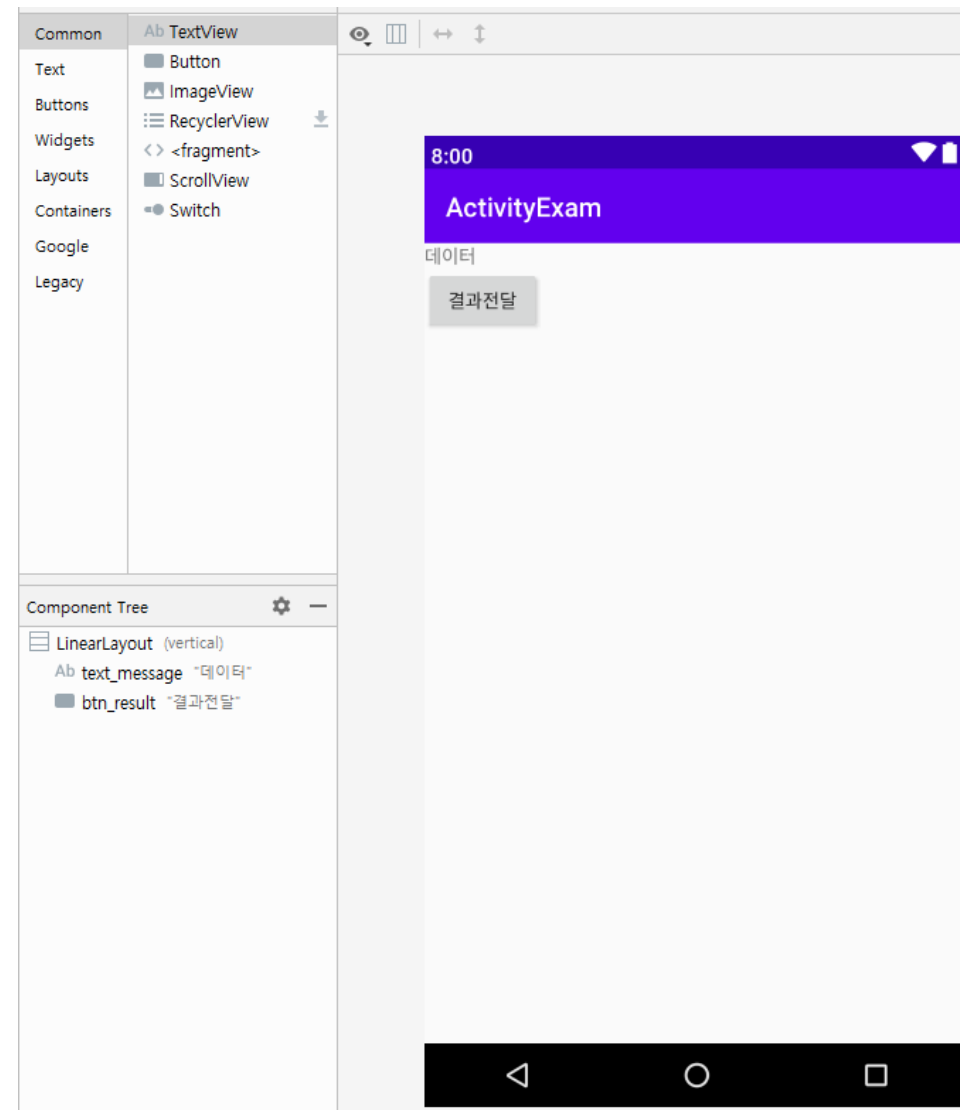
Finish

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

    <TextView
        android:id="@+id/text_message"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="데이터" />

    <Button
        android:id="@+id/btn_result"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="결과전달" />

</LinearLayout>
```




```
public class MainActivity extends AppCompatActivity {

    EditText edit_name, edit_age;
    Button btn_submit;

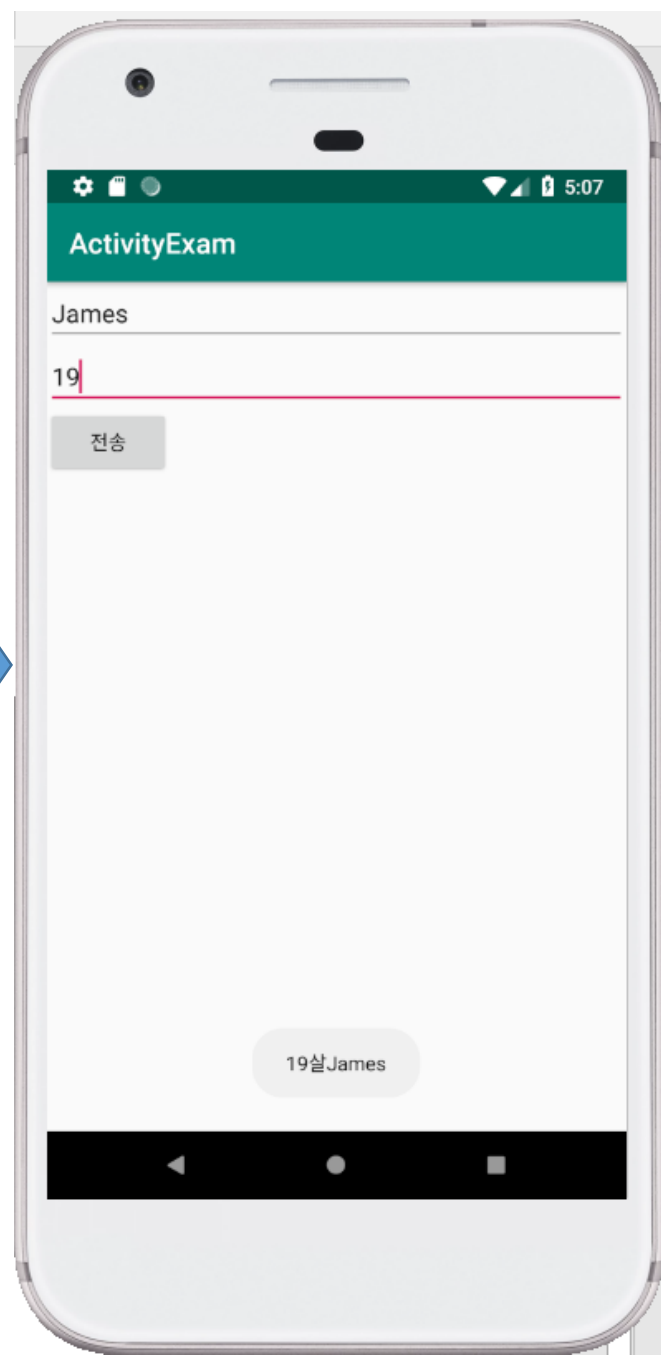
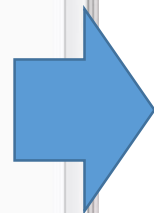
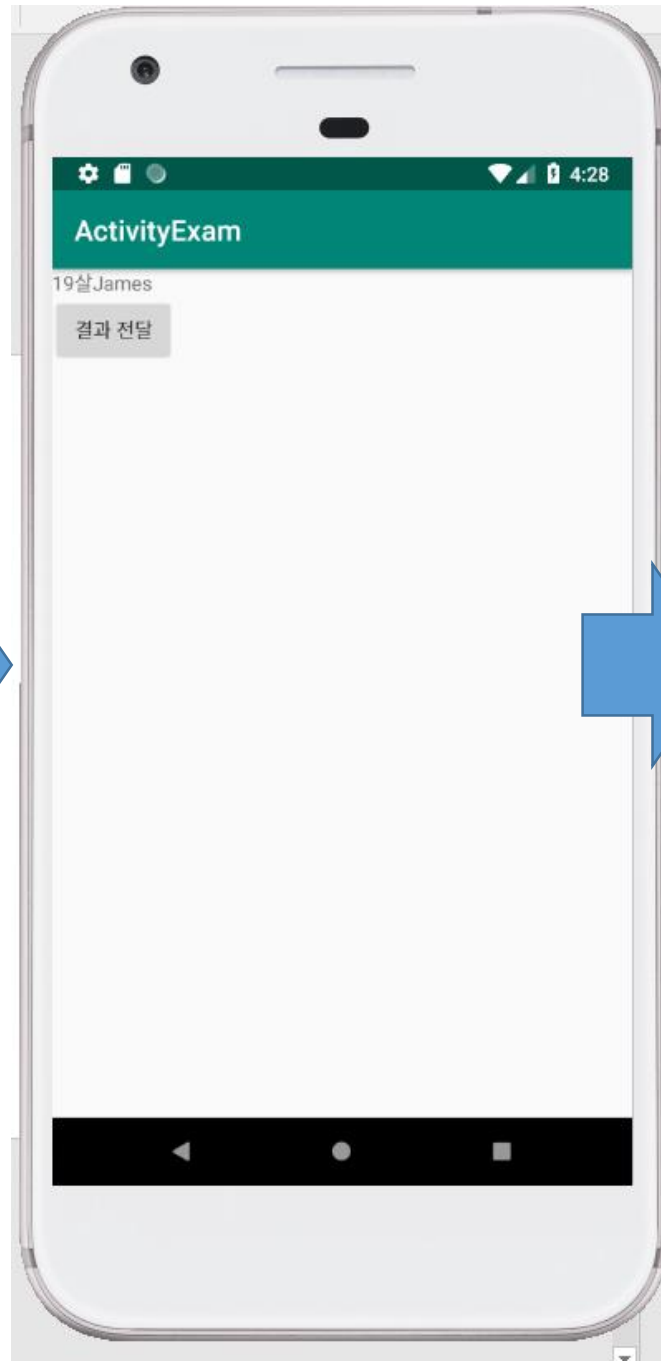
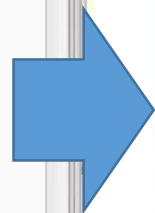
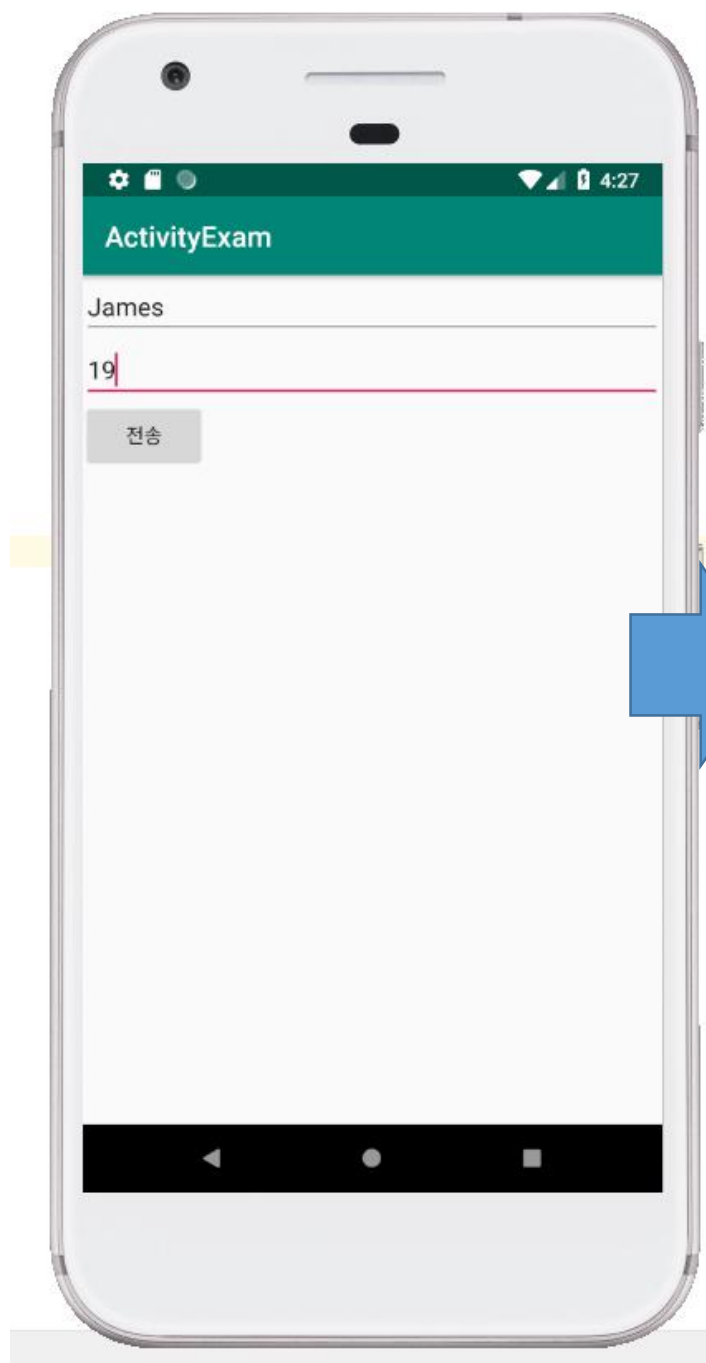
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        edit_age = findViewById(R.id.edit_age);
        edit_name = findViewById(R.id.edit_name);
        btn_submit = findViewById(R.id.btn_submit);
        btn_submit.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Intent intent = new Intent(MainActivity.this, SecondActivity.class);
                intent.putExtra("name", edit_name.getText().toString());
                intent.putExtra("age", edit_age.getText().toString());
                startActivity(intent);
            }
        });
    }
}
```

새창띄우기

```
Intent intent = new Intent(Context context, 실행할 새 액티비티.class)
startActivity(intent);
```

```
public class SecondActivity extends AppCompatActivity {  
    TextView text_message;  
    @Override  
    protected void onCreate(Bundle savedInstanceState) {  
        super.onCreate(savedInstanceState);  
        setContentView(R.layout.activity_second);  
        Intent intent = getIntent();  
        String name = intent.getStringExtra("name");  
        String age = intent.getStringExtra("age");  
        text_message = findViewById(R.id.text_message);  
        text_message.setText((age+"살 "+name));  
    }  
}
```



```
public class MainActivity extends AppCompatActivity {

    public static final int REQUEST_CODE = 1000;
    EditText edit_name, edit_age;
    Button btn_submit;

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

        edit_age = findViewById(R.id.edit_age);
        edit_name = findViewById(R.id.edit_name);
        btn_submit = findViewById(R.id.btn_submit);
        btn_submit.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Intent intent = new Intent(MainActivity.this, SecondActivity.class);
                intent.putExtra("name", edit_name.getText().toString());
                intent.putExtra("age", edit_age.getText().toString());
                startActivityForResult(intent, REQUEST_CODE);
            }
        });
    }
}
```

호출한 Activity에서 결과를 받는 method

```
public class MainActivity extends AppCompatActivity {

    public static final int REQUEST_CODE = 1;
    EditText edit_name, edit_age;
    Button btn_submit;

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

```
        edit_age = findViewById(R.id.edit_age);
        edit_name = findViewById(R.id.edit_name);
        btn_submit = findViewById(R.id.btn_submit);
        btn_submit.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Intent intent = new Intent(MainActivity.this, SecondActivity.class);
                intent.putExtra("name", edit_name.getText().toString());
                intent.putExtra("age", edit_age.getText().toString());
                startActivityForResult(intent, REQUEST_CODE);
            }
        });
    }
}
```

```
@Override
protected void onActivityResult(int requestCode, int resultCode, @Nullable Intent data) {
    super.onActivityResult(requestCode, resultCode, data);
    if(requestCode == REQUEST_CODE && resultCode == RESULT_OK && data != null) {
        String result = data.getStringExtra("result");
        Toast.makeText(getApplicationContext(), result, Toast.LENGTH_SHORT).show();
    }
}
```

@Override

```
protected void onActivityResult(int requestCode, int resultCode, @Nullable Intent data) {
    super.onActivityResult(requestCode, resultCode, data);
    if(requestCode == REQUEST_CODE && resultCode == RESULT_OK && data != null) {
        String result = data.getStringExtra("result");
        Toast.makeText(getApplicationContext(), result, Toast.LENGTH_SHORT).show();
    }
}
```

```
public class SecondActivity extends AppCompatActivity {
    TextView text_message;
    Button btn_result;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_second);
        Intent intent = getIntent();
        String name = intent.getStringExtra("name");
        String age = intent.getStringExtra("age");
        text_message = findViewById(R.id.text_message);
        text_message.setText((age+"살 "+name));
        btn_result = findViewById(R.id.btn_result);
        btn_result.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Intent intent = new Intent();
                intent.putExtra("result",text_message.getText().toString());
                setResult(RESULT_OK,intent);
                finish();
            }
        });
    }
}
```

Choose your project

Phone and Tablet

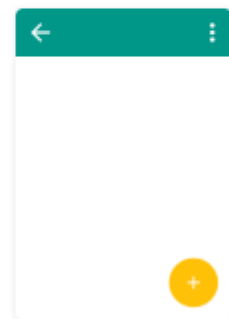
Wear OS

TV

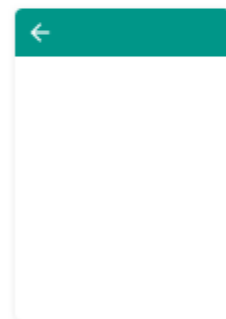
Android Auto

Android Things

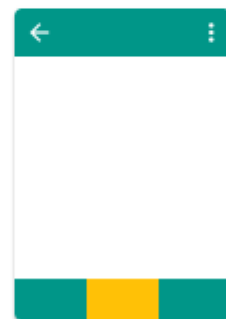
Add No Activity



Basic Activity



Empty Activity



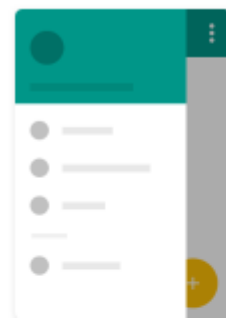
Bottom Navigation Activity



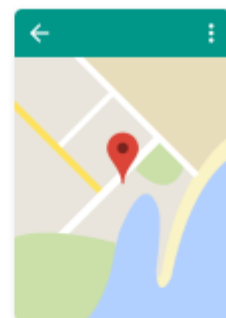
Fullscreen Activity



Master/Detail Flow



Navigation Drawer Activity



Google Maps Activity

Empty Activity

Creates a new empty activity

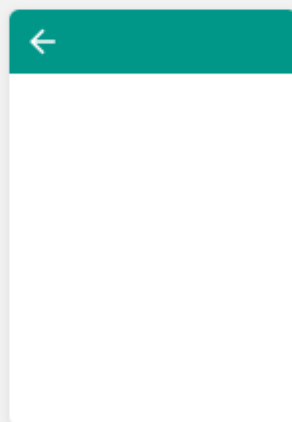
Previous

Next

Cancel

Finish

Configure your project



Empty Activity

Creates a new empty activity

Name

MyCallDial

Package name

com.example.mycalldial

Save location

C:\Users\myHome-HEE1\AndroidStudioProjects\MyCallDial

Language

Java

Minimum API level

API 21: Android 5.0 (Lollipop)

i Your app will run on approximately **85.0%** of devices.

[Help me choose](#)

- ☐ This project will support instant apps
- ☐ Use AndroidX artifacts

Previous

Next

Cancel

Finish

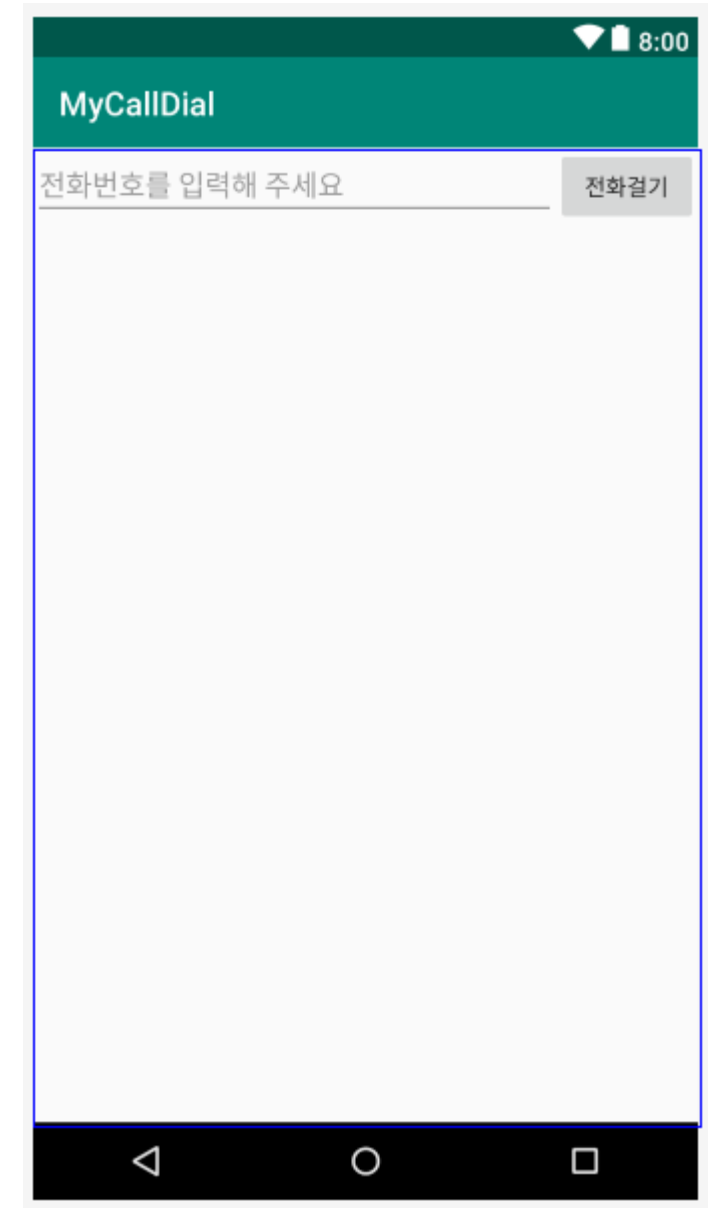
activity_main.xml

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

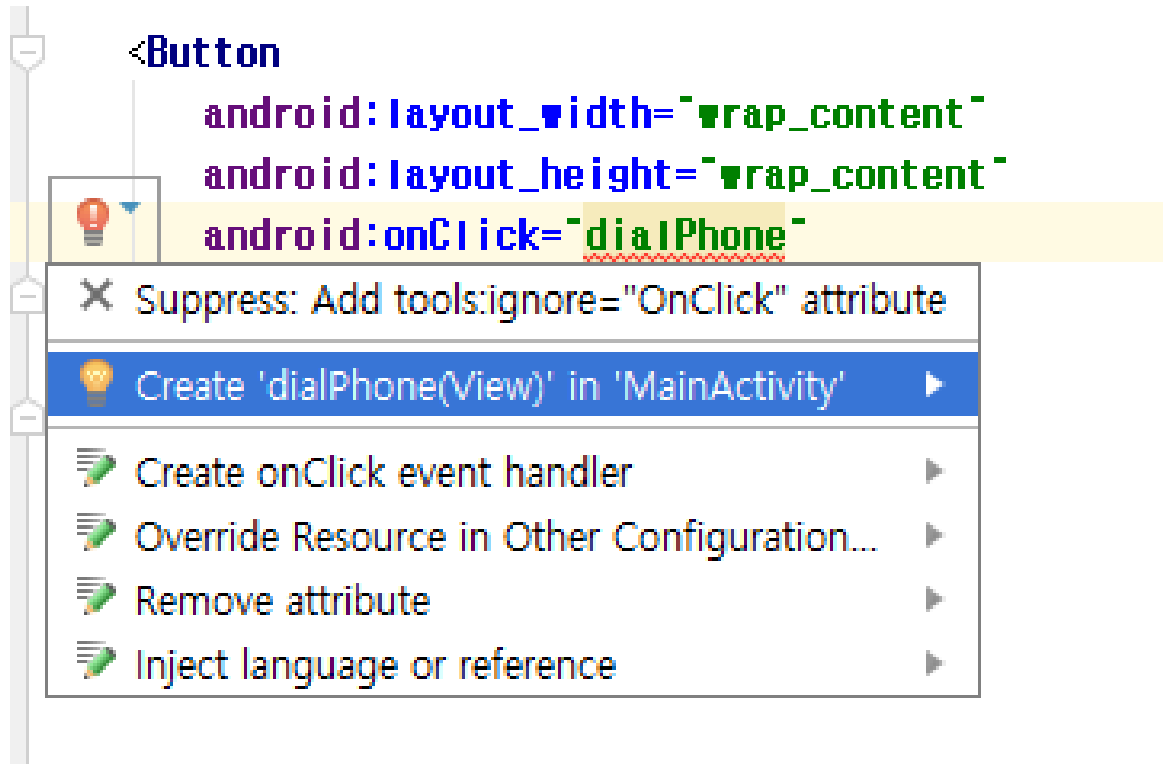
    <EditText
        android:id="@+id/phone_number_edit"
        android:layout_width="0dp"
        android:layout_weight="1"
        android:layout_height="wrap_content"
        android:hint="전화번호를 입력해 주세요"
        android:inputType="phone" />

    <Button
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:onClick="dialPhone"
        android:text="전화걸기"/>

</LinearLayout>
```



activity_main.xml



MainActivity.java

```
package com.example.mycalldial;
```

```
import android.content.Intent;  
import android.net.Uri;  
import android.support.v7.app.AppCompatActivity;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.EditText;
```

```
public class MainActivity extends AppCompatActivity {
```

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

```
    public void dialPhone(View view) {  
    }
```

MainActivity.java

```
package com.example.mycalldial;
```

```
import android.support.v7.app.AppCompatActivity;
```

```
import android.os.Bundle;
```

```
import android.view.View;
```

```
import android.widget.EditText;
```

```
public class MainActivity extends AppCompatActivity {
```

```
    @Override
```

```
    protected void onCreate(Bundle savedInstanceState) {
```

```
        super.onCreate(savedInstanceState);
```

```
        setContentView(R.layout.activity_main);
```

```
    }
```

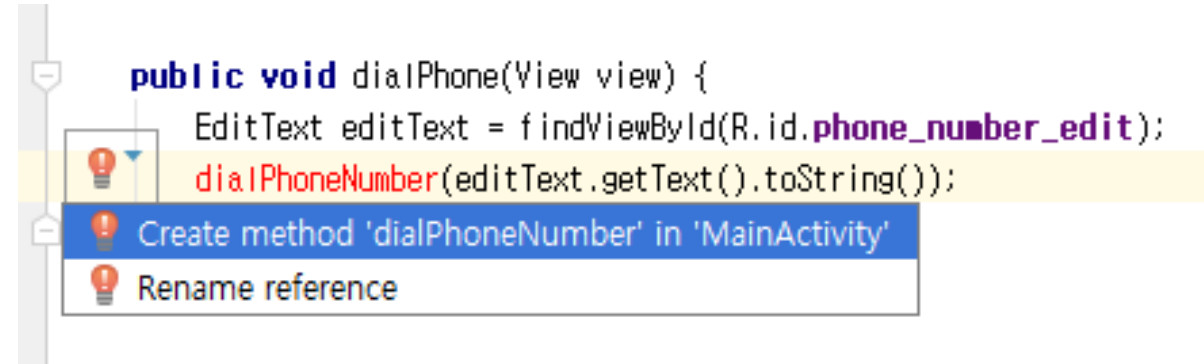
```
    public void dialPhone(View view) {
```

```
        EditText editText = findViewById(R.id.phone_number_edit);
```

```
        dialPhoneNumber(editText.getText().toString());
```

```
    }
```

```
}
```



```
package com.example.mycalldial;
```

```
import android.content.Intent;
```

```
import android.net.Uri;
```

```
import android.support.v7.app.AppCompatActivity;
```

```
import android.os.Bundle;
```

```
import android.view.View;
```

```
import android.widget.EditText;
```

```
public class MainActivity extends AppCompatActivity {
```

```
    @Override
```

```
    protected void onCreate(Bundle savedInstanceState) {
```

```
        super.onCreate(savedInstanceState);
```

```
        setContentView(R.layout.activity_main);
```

```
    }
```

```
    public void dialPhone(View view) {
```

```
        EditText editText = findViewById(R.id.phone_number_edit);
```

```
        dialPhoneNumber(editText.getText().toString());
```

```
    }
```

```
    private void dialPhoneNumber(String phoneNumber) {
```

```
        Intent intent = new Intent(Intent.ACTION_DIAL);
```

```
        intent.setData(Uri.parse("tel:" + phoneNumber));
```

```
        if(intent.resolveActivity(getPackageManager()) != null){
```

```
            startActivity(intent);
```

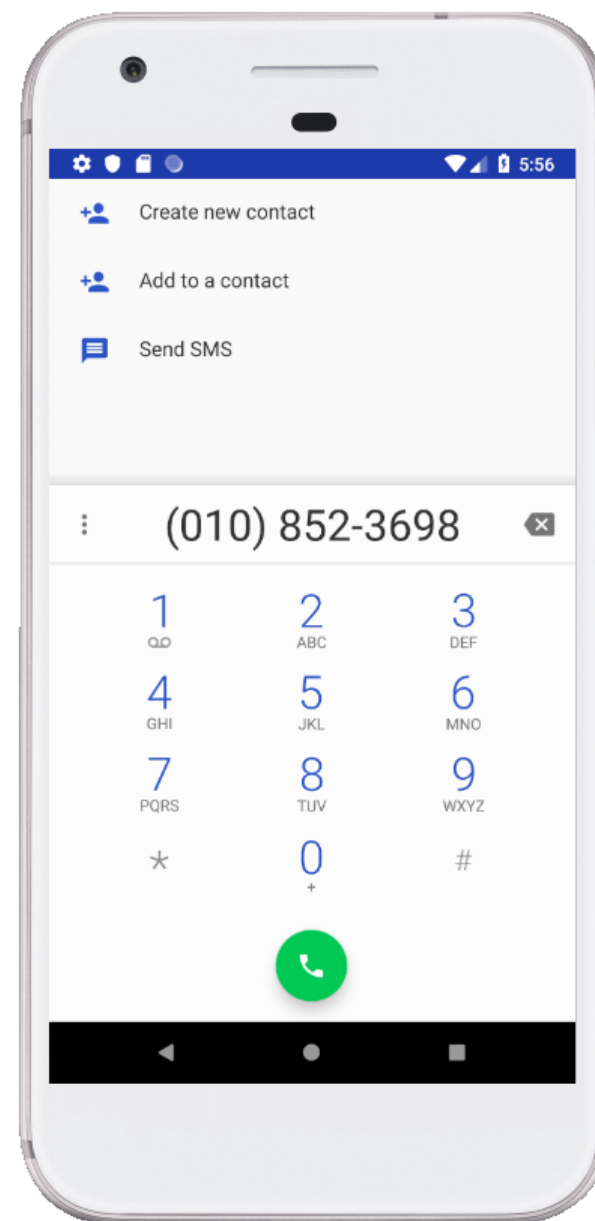
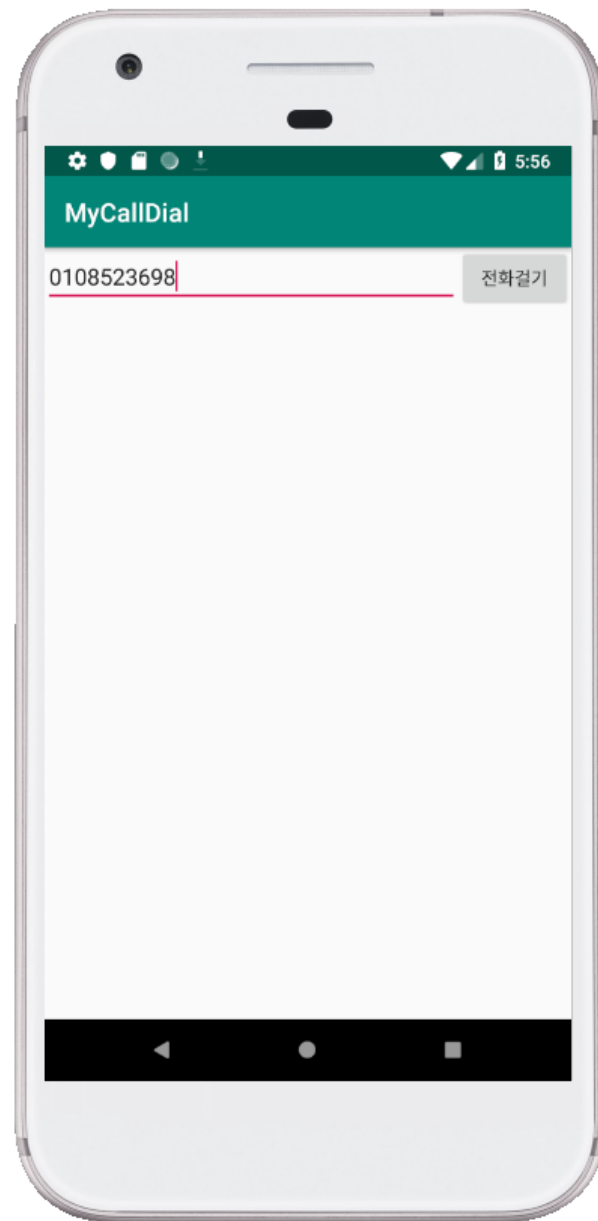
```
        }
```

```
    }
```

```
}
```

예시 인텐트:

```
public void dialPhoneNumber(String phoneNumber) {  
    Intent intent = new Intent(Intent.ACTION_DIAL);  
    intent.setData(Uri.parse("tel:" + phoneNumber));  
    if (intent.resolveActivity(getPackageManager()) != null) {  
        startActivity(intent);  
    }  
}
```



android에서 무엇이든 빌드

🔍 common intents

Save the date! [Android Dev Summit](#) is coming to Sunnyvale, CA on Oct 23-24, 2019.

FEATURED

Android Q 베타 소개

Android의 최신 버전에서는 강력한 사용자 개인정보 보호, 사용자와 소통하는 새로운 방법, 개선된 폴더블 지원 기능, Vulkan 확장 프로그램 등 다양한 새 기능을 제공합니다.

[자세히 알아보기](#)





common intents에 대한 검색결과

There are no reference results for your query

[Common Intents | Android Developers](#)

<https://developer.android.com/guide/components/intents-common>

This page describes several implicit **intents** that you can use to perform **common** actions, organized by the type of app that handles the **intent**. Each section also ...

[Intents comunes | Android Developers](#)

<https://developer.android.com/guide/components/intents-common?...>

Una **intent** permite iniciar una actividad en otra app mediante la descripción de una acción simple que desees realizar (como “ver un mapa” o “tomar una foto”) ...

[Intents and Intent Filters | Android Developers](#)

<https://developer.android.com/guide/components/intents-filters>

Although **intents** facilitate communication between components in several ways, there are three ... Here are some **common** actions for starting an activity:.

App Basics

Introduction

▶ Build your first app

App fundamentals

▶ App resources

▶ App manifest file

▶ App permissions

Devices

▶ Device compatibility

▶ Wear

▶ Android TV

▶ Android Auto

▶ Android Things

▶ Chrome OS devices

Core topics

▶ Activities

▶ Architecture Components

▶ Navigation

▼ Intents and intent filters

Overview

Common intents

▶ User interface

▶ Animations & transitions

▶ Images & graphics

▶ Audio & video

▶ Background tasks

▶ App data & files

전화

전화 걸기

전화 앱을 열어 번호를 누르려면, `ACTION_DIAL` 작업을 사용하고, 아래에 정의한 URI 구성표를 사용해 전화번호를 지정합니다. 전화 앱을 열면 전화번호가 표시되지만 사용자가 *Call* 버튼을 눌러야 통화를 시작할 수 있습니다.

직접 전화를 걸려면 `ACTION_CALL` 작업을 사용하고 아래에 정의한 URI 구성표를 사용해 전화번호를 지정합니다. 전화 앱을 열면 앱이 전화를 걸기 시작합니다. 사용자는 *Call* 버튼을 누르지 않아도 됩니다.

`ACTION_CALL` 작업은 매니페스트 파일에 `CALL_PHONE` 권한을 추가할 것을 요구합니다.

```
<uses-permission android:name="android.permission.CALL_PHONE" />
```

작업

- `ACTION_DIAL` - 다이얼
- `ACTION_CALL` - 전화 걸기 (`CALL_PHONE` 권한 필요)



Google Voice Actions

- "555-5555로 전화하세요"
- "Bob에게 전화하세요"
- "음성사서함에 전화하세요"

특정 연락처 데이터 선택

연락처 보기

기존 연락처 편집

연락처 삽입

이메일

선택적 첨부 파일이 있는 이메일 작성

파일 저장소

특정 유형의 파일 검색

특정 유형의 파일 열기

로컬 작업

자동차 부르기

지도

지도상에 위치 표시하기

음악 또는 동영상

미디어 파일 재생

검색 쿼리 기반 음악 재생

새 노트

노트 만들기

전화

전화 걸기

검색

특정 앱을 사용한 검색

동영상

웹 검색하기

설정

설정의 특정 부분 열기

문자 메시지

첨부 파일이 있는 SMS/MMS 메시지 보내기

[개요](#)
[안내](#)
[참조](#)
[샘플](#)
[DESIGN & QUALITY](#)

App Basics

[Introduction](#)
[Build your first app](#)
[App fundamentals](#)
[App resources](#)
[App manifest file](#)
[App permissions](#)

Devices

[Device compatibility](#)
[Wear](#)
[Android TV](#)
[Android Auto](#)
[Android Things](#)
[Chrome OS devices](#)

Core topics

[Activities](#)
[Architecture Components](#)
[Navigation](#)
[Intents and intent filters](#)
[Overview](#)
[Common intents](#)
[User interface](#)
[Animations & transitions](#)
[Images & graphics](#)
[Audio & video](#)

전화기의 다이얼은 전화 번호 등 구성표를 정규화하는데 적합합니다. 따라서 설명드린 구성표는 `Uri.parse()` 메서드에서 엄격히 요구되는 것이 아닙니다. 그러나 구성표를 시도해보지 않았거나 그것을 처리할 수 있을지 확신이 서지 않는다면 `Uri.fromParts()` 메서드를 대신 사용하세요.

예시 인텐트:

```
public void dialPhoneNumber(String phoneNumber) {
    Intent intent = new Intent(Intent.ACTION_DIAL);
    intent.setData(Uri.parse("tel:" + phoneNumber));
    if (intent.resolveActivity(getPackageManager()) != null) {
        startActivity(intent);
    }
}
```

검색

특정 앱을 사용한 검색

동영상

앱에서 음성 검색

앱 컨텍스트 내에 검색을 지원하려면 아래의 예시 인텐트 필터에 나오는 것처럼 `SEARCH_ACTION` 작업으로 앱에서 인텐트 필터를 선언합니다.

작업



Google Voice Actions

- "myvideoapp에서 고양이 동영상을 검색하세요"

연락처/피플 앱

[연락처 선택](#)
[특정 연락처 데이터 선택](#)
[연락처 보기](#)
[기존 연락처 편집](#)
[연락처 삽입](#)

이메일

[선택적 첨부 파일이 있는 이메일 작성](#)

파일 저장소

[특정 유형의 파일 검색](#)
[특정 유형의 파일 열기](#)

로컬 작업

[자동차 부르기](#)

지도

[지도상에 위치 표시하기](#)

음악 또는 동영상

[미디어 파일 재생](#)
[검색 쿼리 기반 음악 재생](#)

새 노트

[노트 만들기](#)

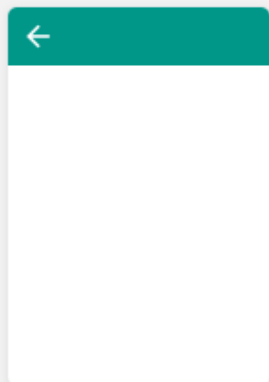
전화

[전화 걸기](#)

검색

[특정 앱을 사용한 검색](#)
[동영상](#)
[웹 검색하기](#)

Configure your project



Empty Activity

Creates a new empty activity

Name

MyUpNavigation

Package name

com.example.myupnavigation

Save location

C:\Users\myHome-HEE1\AndroidStudioProjects\MyUpNavigation

Language

Java

Minimum API level

API 21: Android 5.0 (Lollipop)



Your app will run on approximately **85.0%** of devices.

[Help me choose](#)



This project will support instant apps



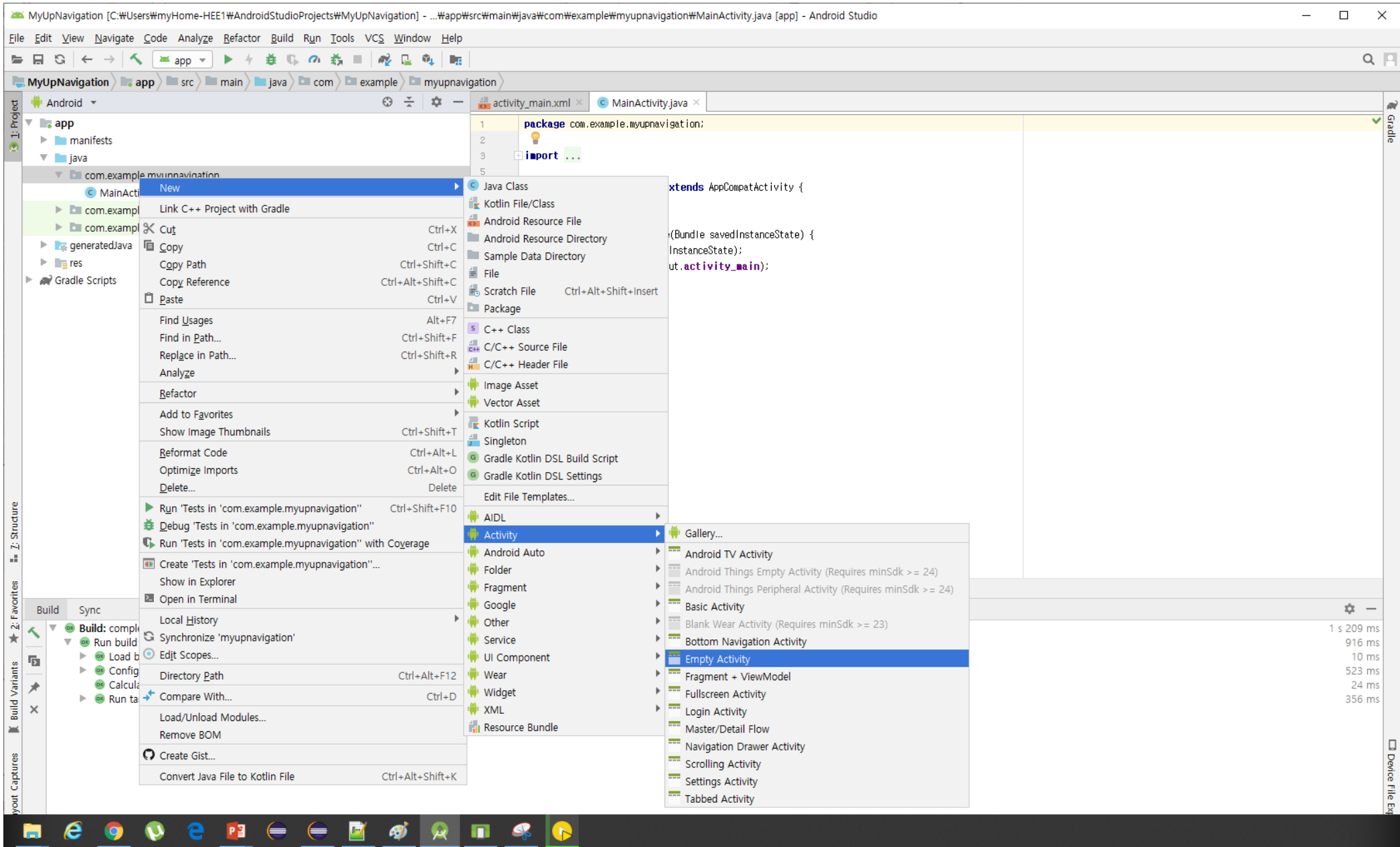
Use AndroidX artifacts

Previous


Next

Cancel


Finish

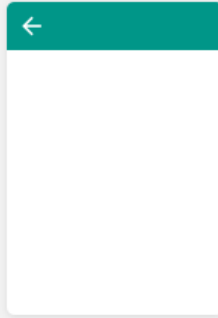


New Android Activity

Configure Activity

Android Studio





Creates a new empty activity

Activity Name:

ParentActivity

Layout Name:

activity_parent2

Package name:

com.example.myupnavigation

Source Language:

Java

☒ Generate Layout File

☐ Launcher Activity

☒ Backwards Compatibility (AppCompat)

The name of the activity class to create

Activity Name must be unique


Previous

Next


Cancel

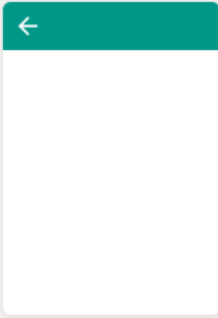
Finish

New Android Activity

Configure Activity

Android Studio





Creates a new empty activity

Activity Name:

ChildActivity

Layout Name:

activity_child

Package name:

com.example.myupnavigation

Source Language:

Java

☒ Generate Layout File

☐ Launcher Activity

☒ Backwards Compatibility (AppCompat)

The name of the activity class to create

Previous

Next

Cancel

Finish

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

```
<android.support.constraint.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android"
```

```
    xmlns:app="http://schemas.android.com/apk/res-auto"
```

```
    xmlns:tools="http://schemas.android.com/tools"
```

```
    android:layout_width="match_parent"
```

```
    android:layout_height="match_parent"
```

```
    tools:context=".MainActivity">
```

```
<Button
```

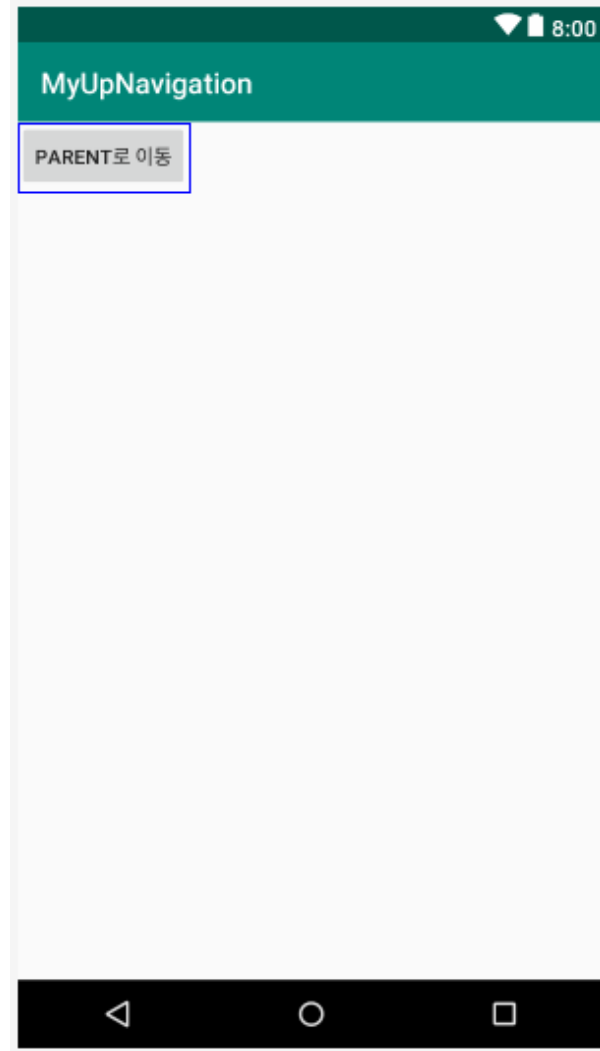
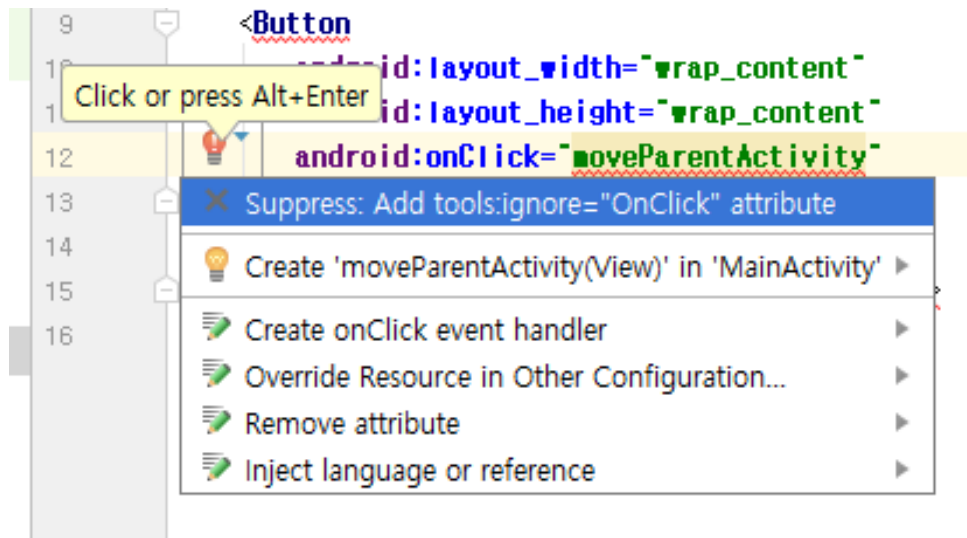
```
    android:layout_width="wrap_content"
```

```
    android:layout_height="wrap_content"
```

```
    android:onClick="moveParentActivity"
```

```
    android:text="Parent로 이동" />
```

```
</android.support.constraint.ConstraintLayout>>
```



```
package com.example.myupnavigation;
```

```
import android.content.Intent;
```

```
import android.support.v7.app.AppCompatActivity;
```

```
import android.os.Bundle;
```

```
import android.view.View;
```

```
public class MainActivity extends AppCompatActivity {
```

```
    @Override
```

```
    protected void onCreate(Bundle savedInstanceState) {
```

```
        super.onCreate(savedInstanceState);
```

```
        setContentView(R.layout.activity_main);
```

```
    }
```

```
        public void moveParentActivity(View view) {
```

```
            startActivity(new Intent(this, ParentActivity.class));
```

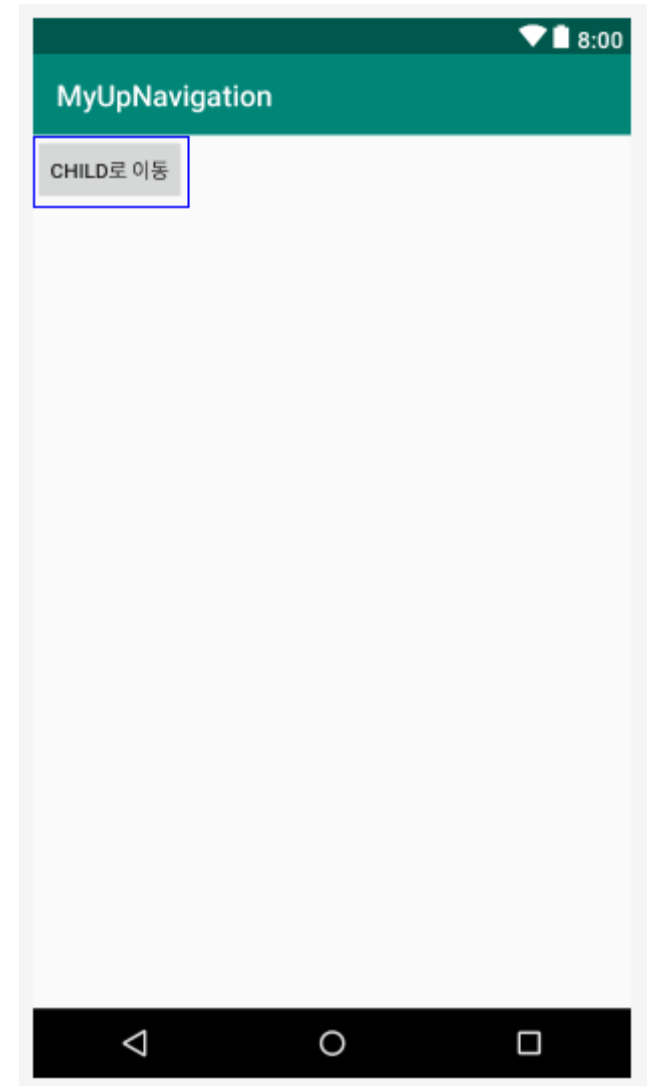
```
        }
```

```
    }
```

```
<?xml version="1.0" encoding="utf-8"?>
<android.support.constraint.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".ParentActivity">

    <Button
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:onClick="moveChildActivity"
        android:text="Child로 이동" />

</android.support.constraint.ConstraintLayout>
```



```
package com.example.myupnavigation;
```

```
import android.content.Intent;
```

```
import android.support.v7.app.AppCompatActivity;
```

```
import android.os.Bundle;
```

```
import android.view.View;
```

```
public class ParentActivity extends AppCompatActivity {
```

```
    @Override
```

```
    protected void onCreate(Bundle savedInstanceState) {
```

```
        super.onCreate(savedInstanceState);
```

```
        setContentView(R.layout.activity_parent);
```

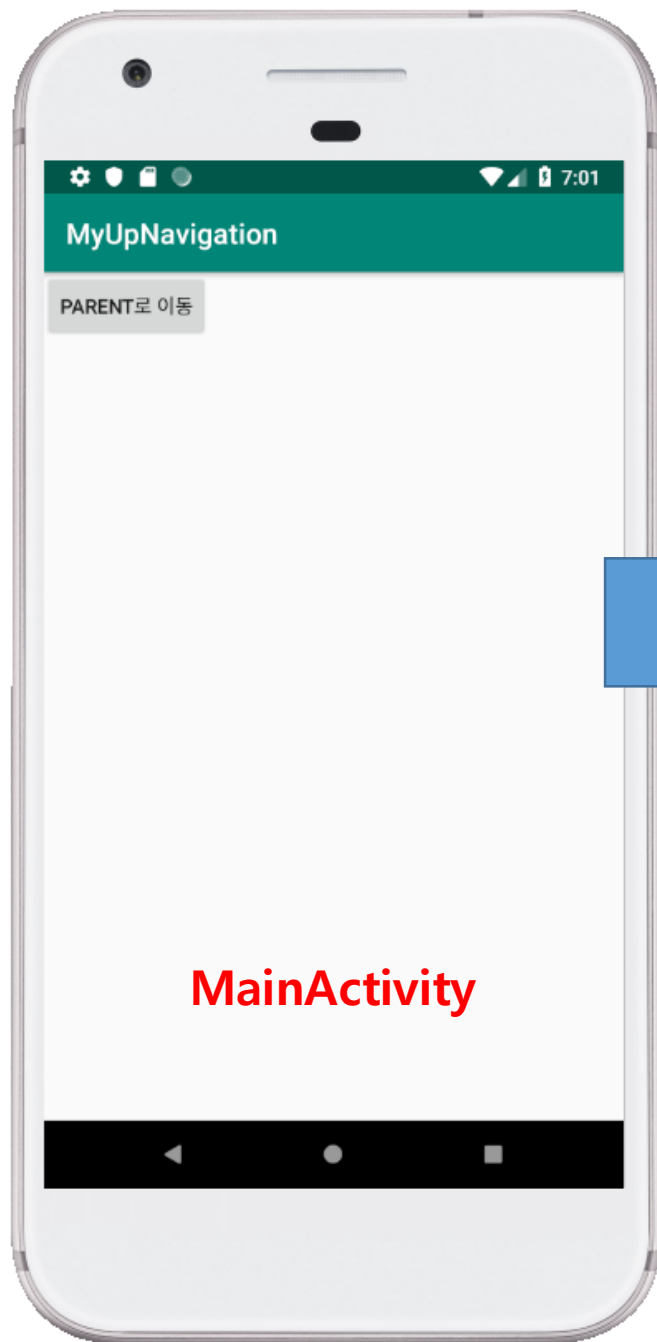
```
    }
```

```
    public void moveChildActivity(View view) {
```

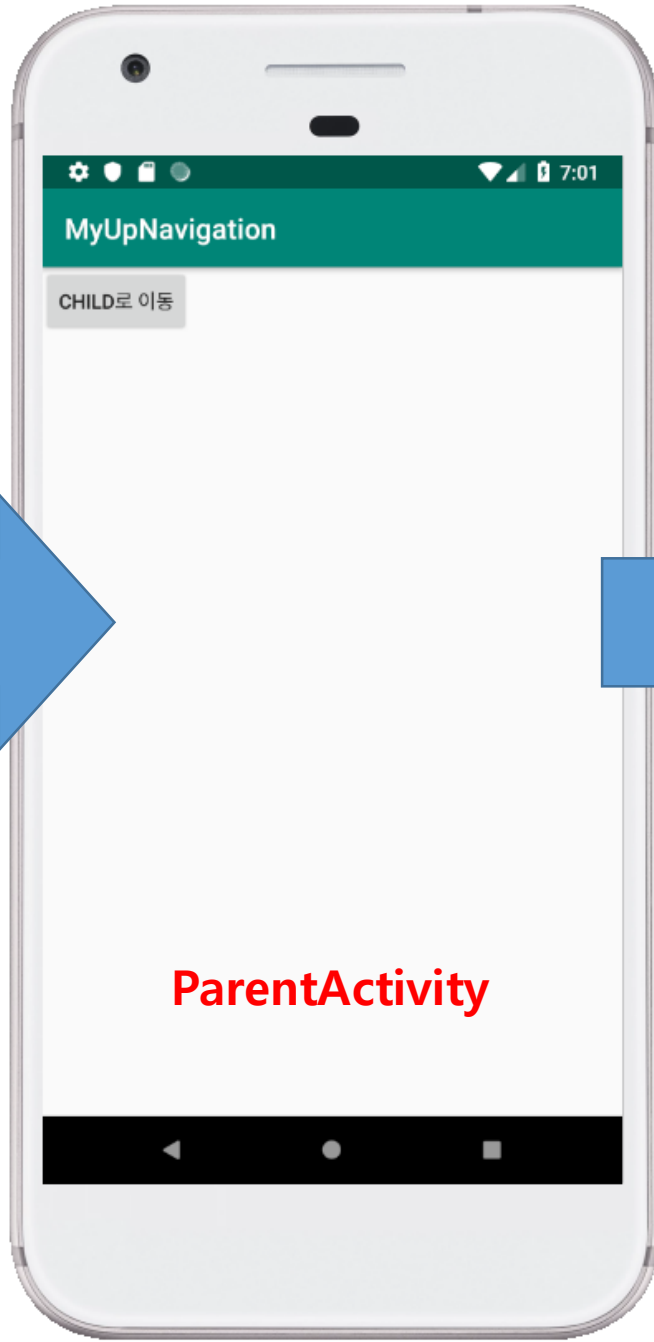
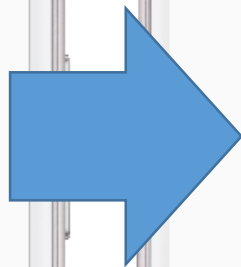
```
        startActivity(new Intent(this, ChildActivity.class));
```

```
    }
```

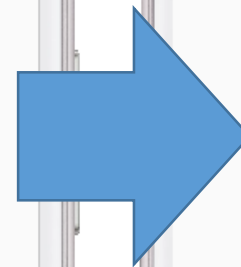
```
}
```

MainActivity



ParentActivity



ChildActivity

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

    <application
        android:allowBackup="true"
        android:icon="@mipmap/ic_launcher"
        android:label="@string/app_name"
        android:roundIcon="@mipmap/ic_launcher_round"
        android:supportRtl="true"
        android:theme="@style/AppTheme">
        <activity android:name=".ChildActivity"
            android:parentActivityName=".ParentActivity">

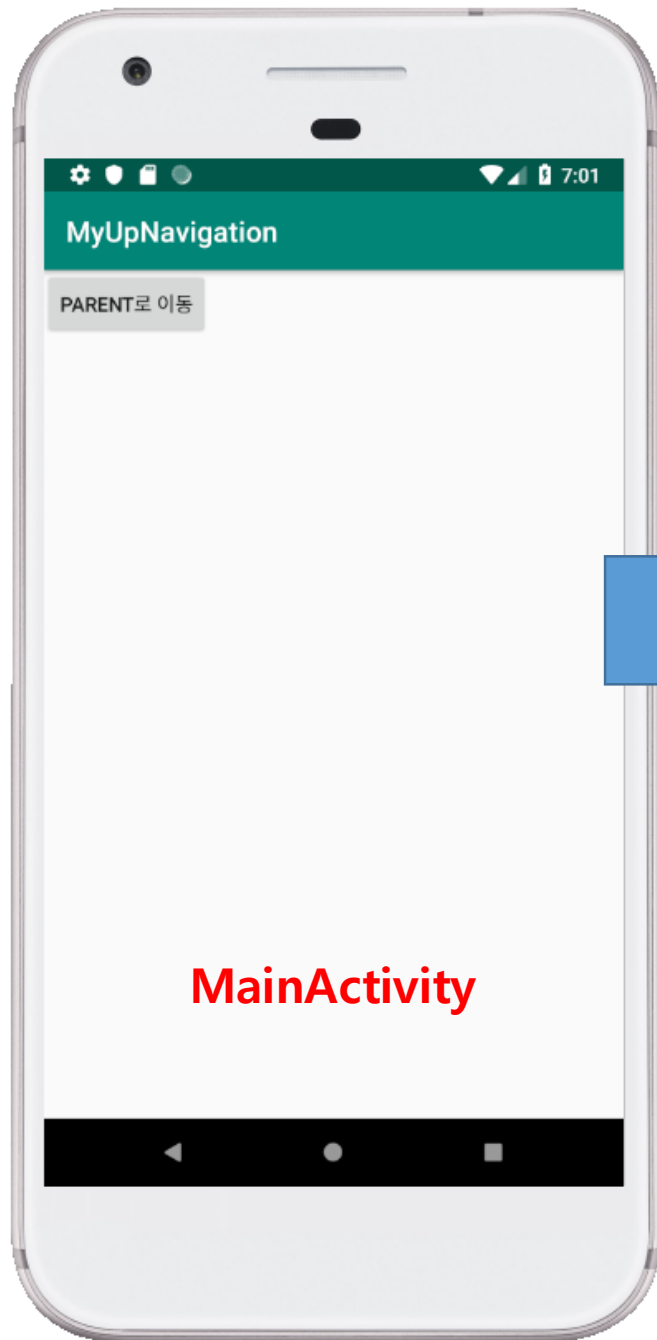
            </activity>
            <activity android:name=".ParentActivity"
                android:parentActivityName=".MainActivity">

                </activity>
                <activity android:name=".MainActivity">
                    <intent-filter>
                        <action android:name="android.intent.action.MAIN" />

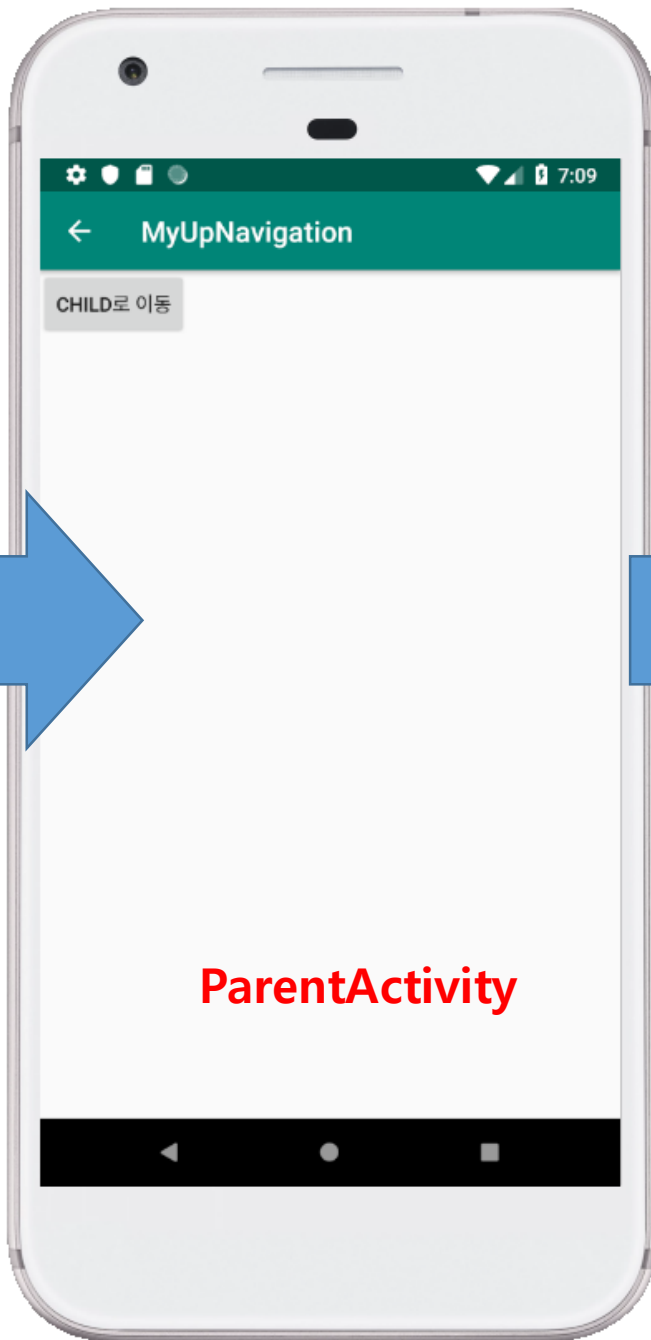
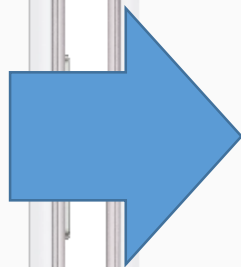
                        <category android:name="android.intent.category.LAUNCHER" />
                    </intent-filter>
                </activity>
            </application>

    </manifest>
```

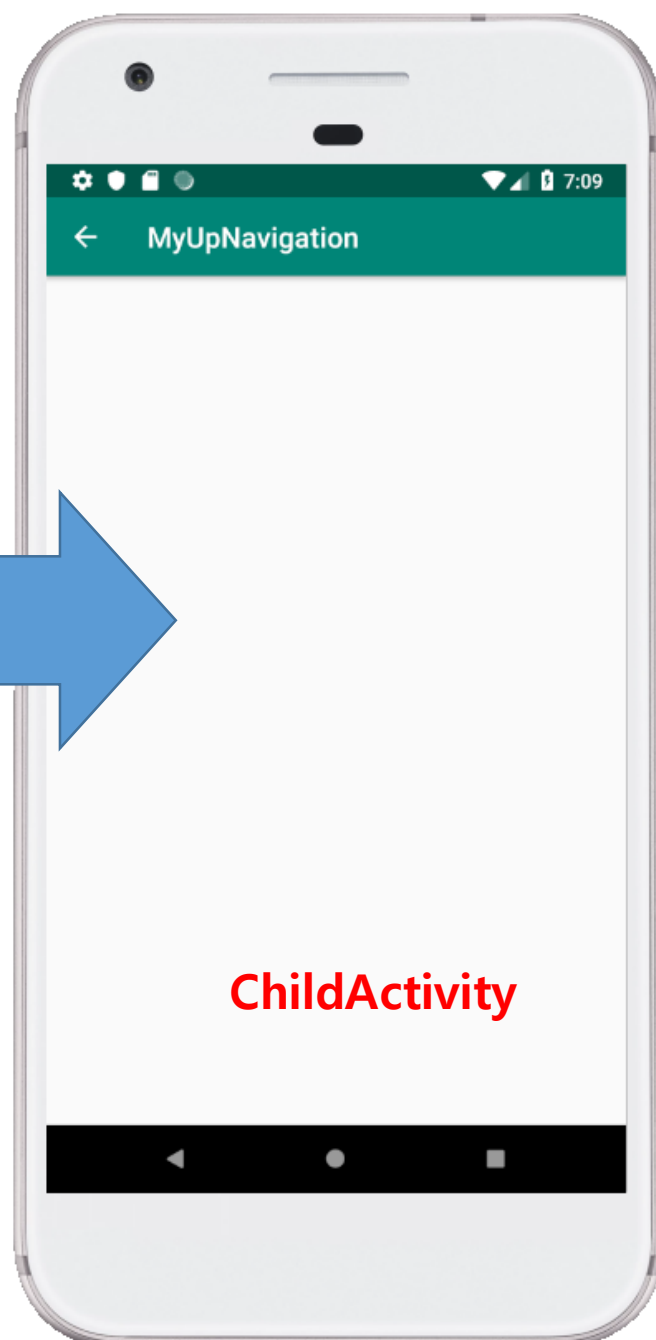
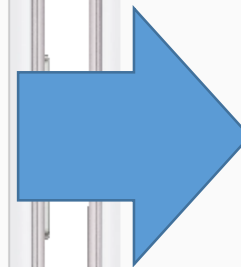
AndroidManifest.xml



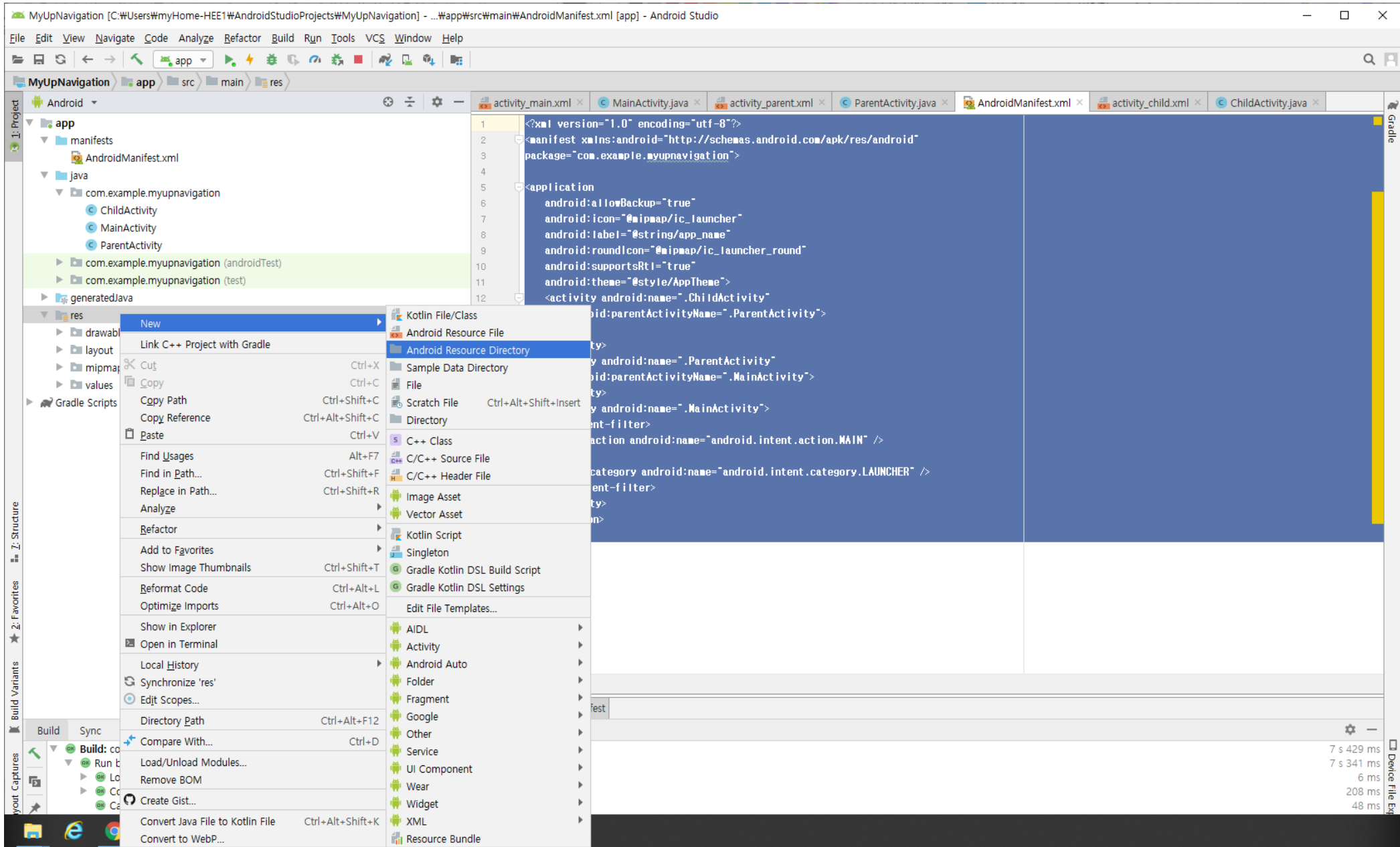
MainActivity

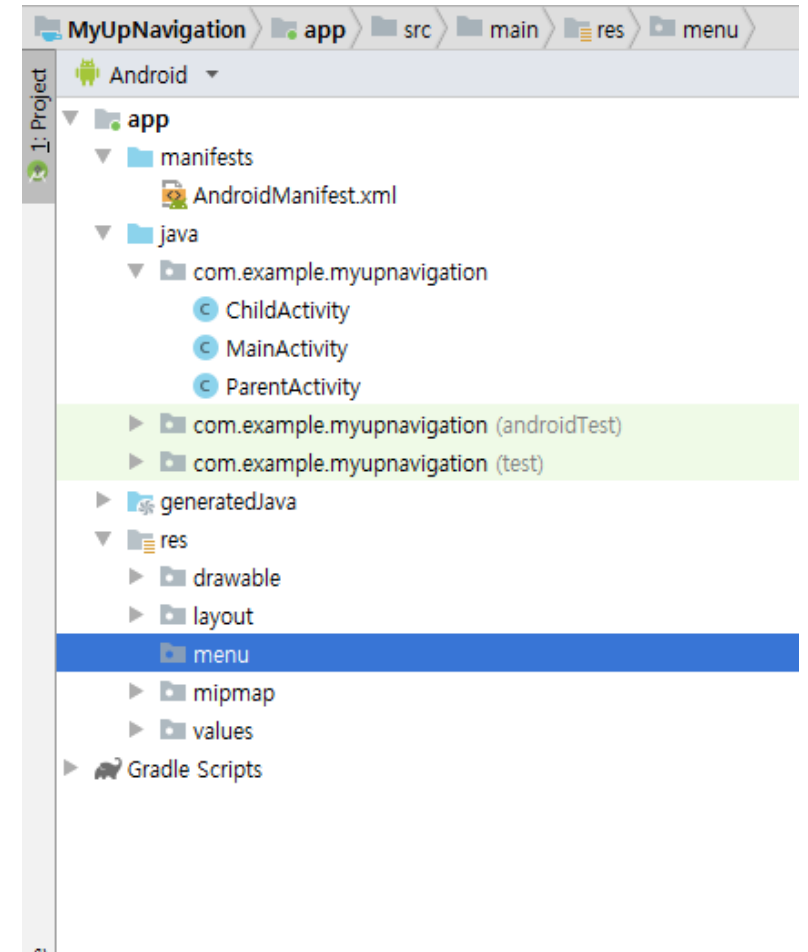
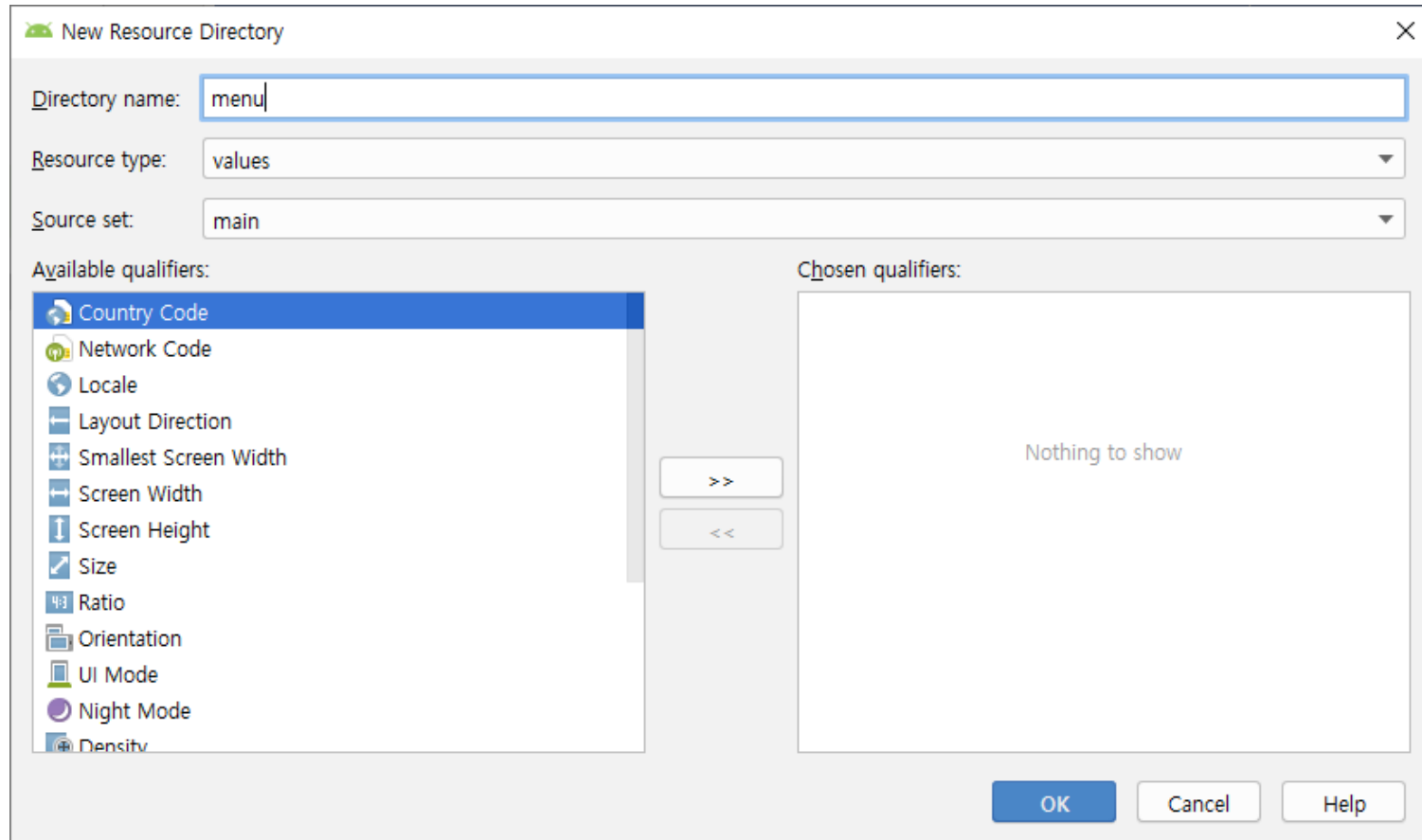


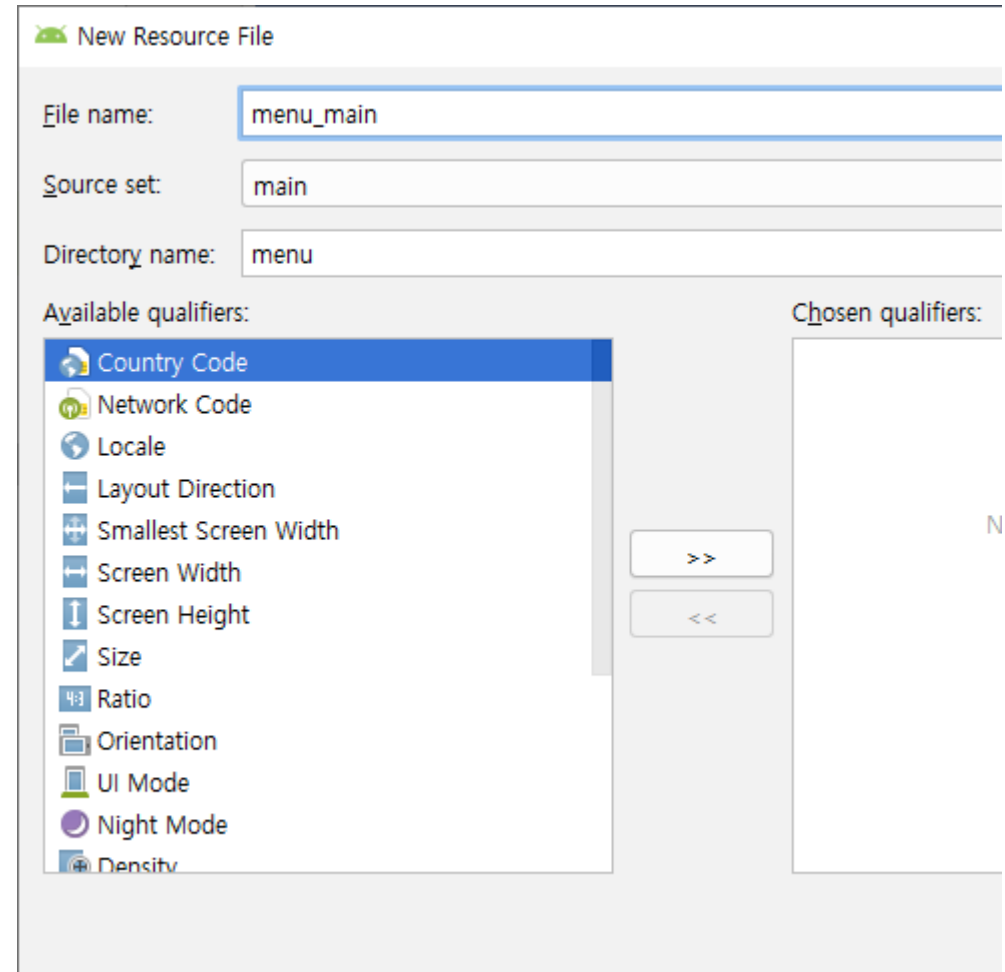
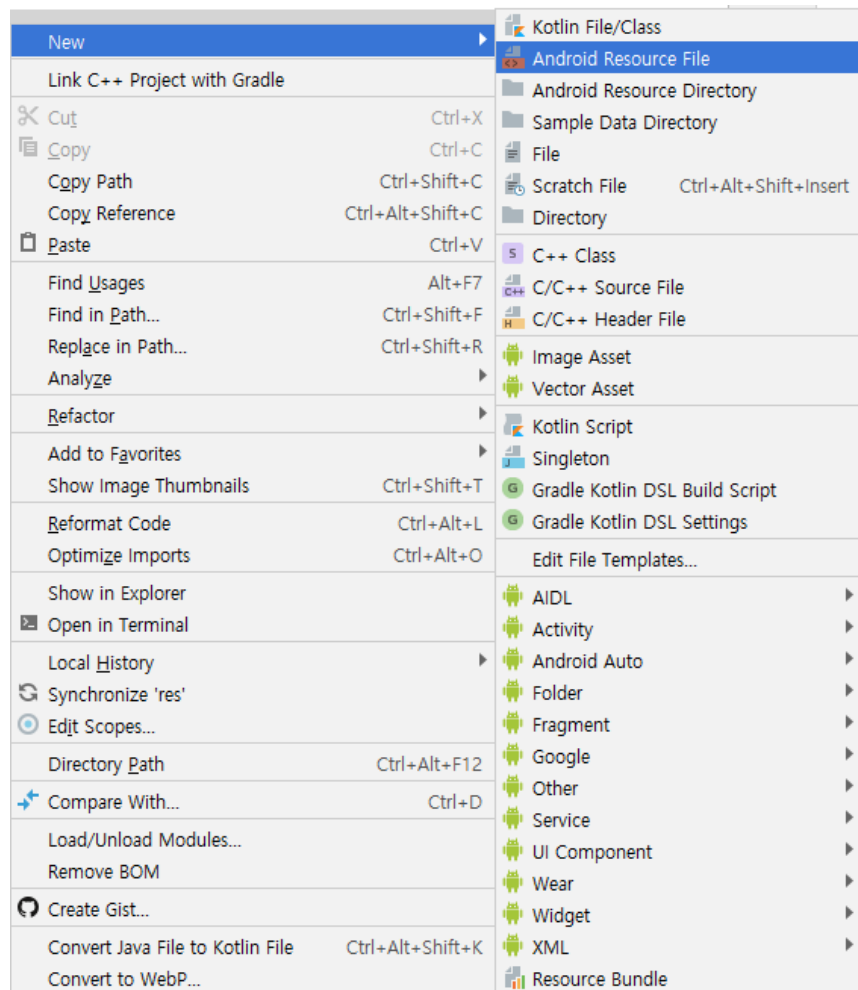
ParentActivity




ChildActivity




















 New Resource File

File name:

Source set:

Directory name:

Available qualifiers:

-  Country Code
-  Network Code
-  Locale
-  Layout Direction
-  Smallest Screen Width
-  Screen Width
-  Screen Height
-  Size
-  Ratio
-  Orientation
-  UI Mode
-  Night Mode
-  Density

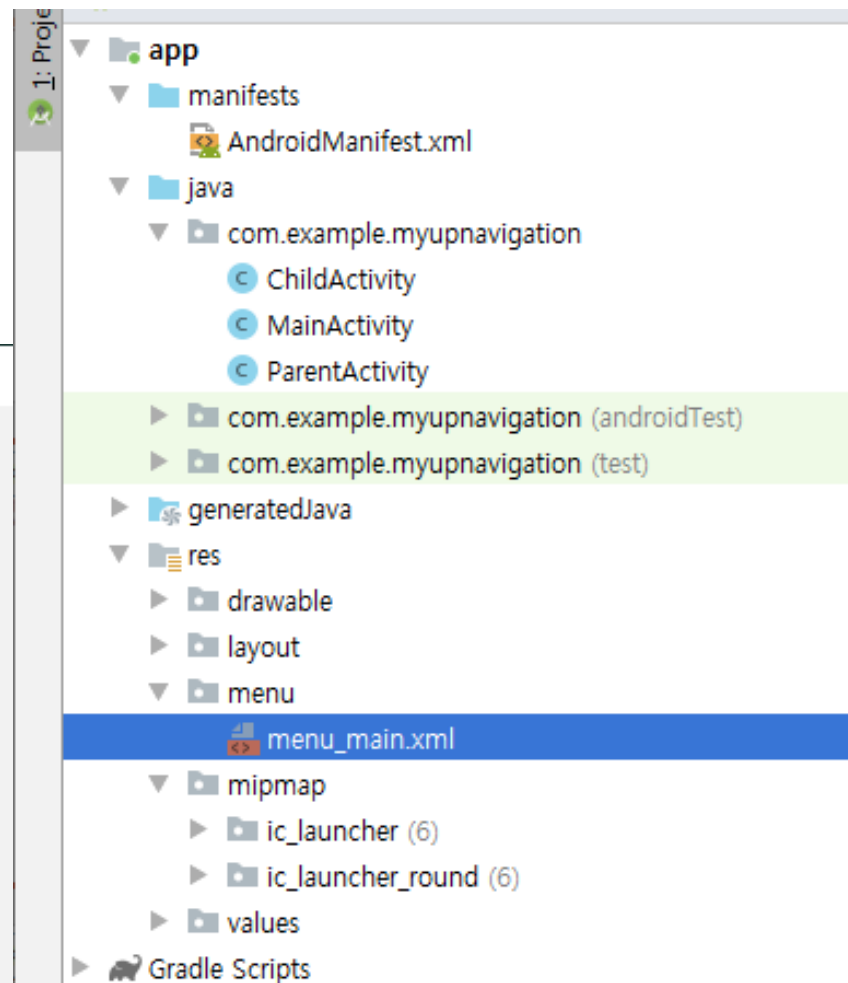
Chosen qualifiers:

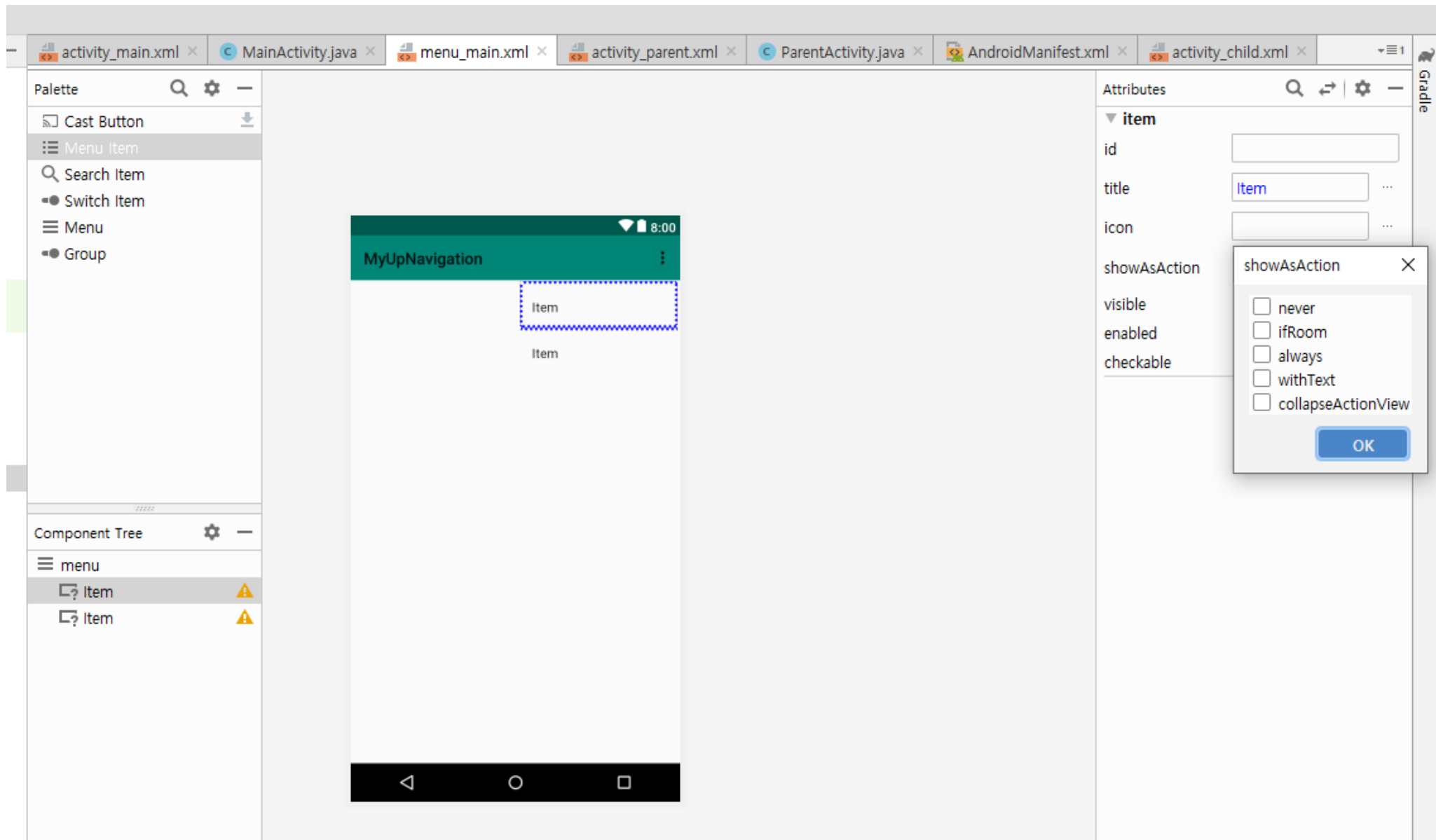
Nothing to show

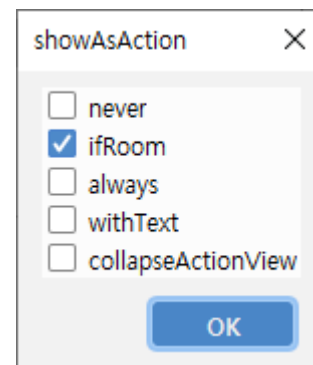
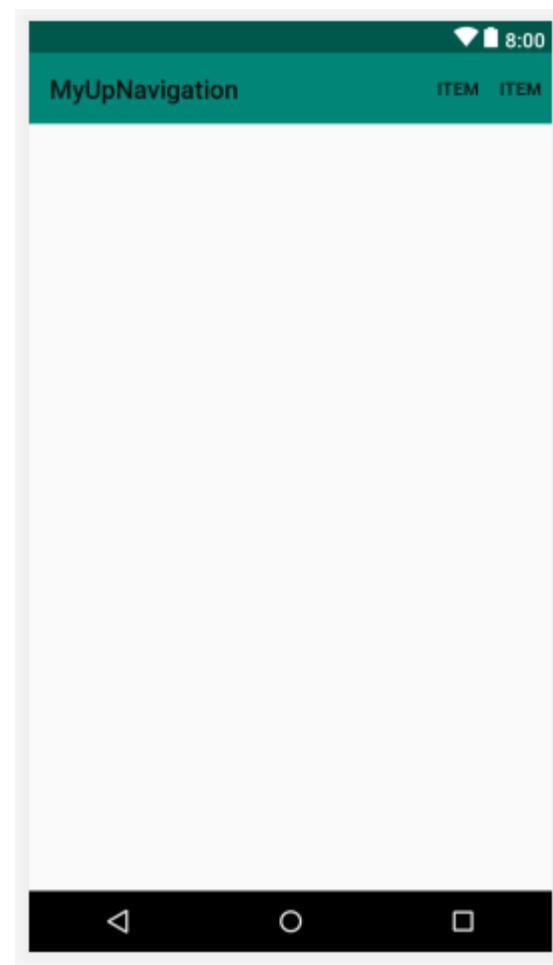
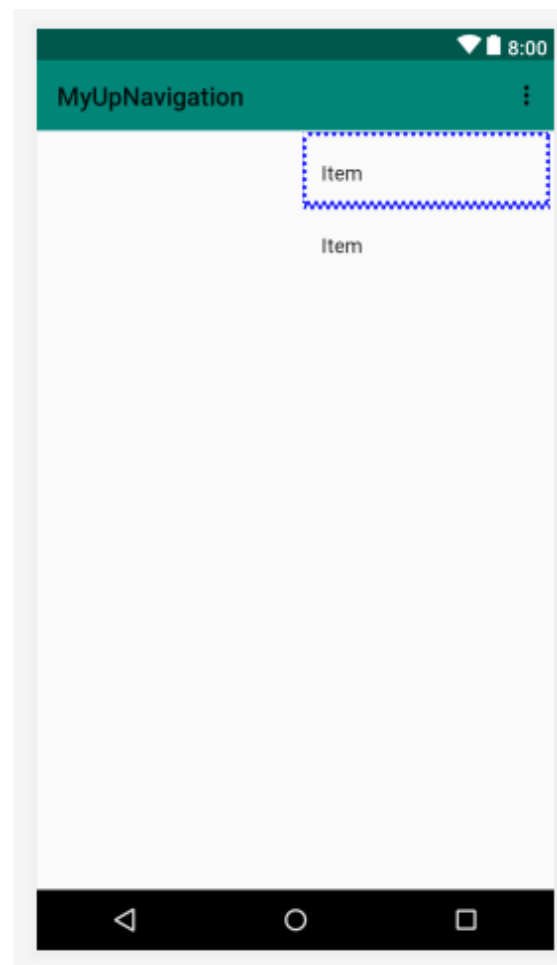
>>

<<

OK Cancel Help







menu_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<menu xmlns:app="http://schemas.android.com/apk/res-auto"
      xmlns:android="http://schemas.android.com/apk/res/android">
  <item
    android:id="@+id/action_menu1"
    android:icon="@mipmap/ic_launcher_round"
    android:title="Item"
    app:showAsAction="ifRoom" />
  <item
    android:id="@+id/action_menu2"
    android:title="Item"
    app:showAsAction="ifRoom" />
</menu>
```

```
package com.example.myupnavigation;
```

```
import android.content.Intent;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.Menu;
import android.view.MenuInflater;
import android.view.MenuItem;
import android.view.View;
import android.widget.Toast;
```

```
public class MainActivity extends AppCompatActivity {
```

```
    @Override
```

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

```
    public void moveParentActivity(View view) {
        startActivity(new Intent(this, ParentActivity.class));
    }
```

```
    @Override
```

```
    public boolean onCreateOptionsMenu(Menu menu) {
        getMenuInflater().inflate(R.menu.menu_main, menu);
        return true;
    }
```

```
    @Override
```

```
    public boolean onOptionsItemSelected(MenuItem item) {
        switch (item.getItemId()) {
            case R.id.action_menu1:
                Toast.makeText(this, "첫번째 메뉴", Toast.LENGTH_SHORT).show();
                return true;
            case R.id.action_menu2:
                Toast.makeText(this, "두번째 메뉴", Toast.LENGTH_SHORT).show();
                return true;
        }
        return super.onOptionsItemSelected(item);
    }
}
```

```
@Override
```

```
    public boolean onCreateOptionsMenu(Menu menu) {
        getMenuInflater().inflate(R.menu.menu_main, menu);
        return true;
    }
```

```
@Override
```

```
    public boolean onOptionsItemSelected(MenuItem item) {
        switch (item.getItemId()) {
            case R.id.action_menu1:
                Toast.makeText(this, "첫번째 메뉴", Toast.LENGTH_SHORT).show();
                return true;
            case R.id.action_menu2:
                Toast.makeText(this, "두번째 메뉴", Toast.LENGTH_SHORT).show();
                return true;
        }
        return super.onOptionsItemSelected(item);
    }
}
```

