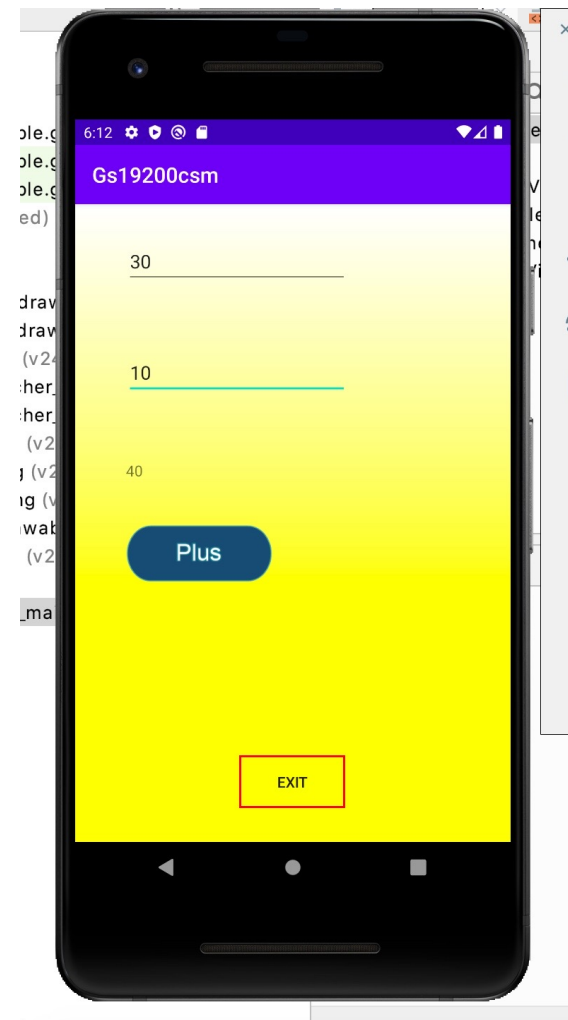


Drawarble

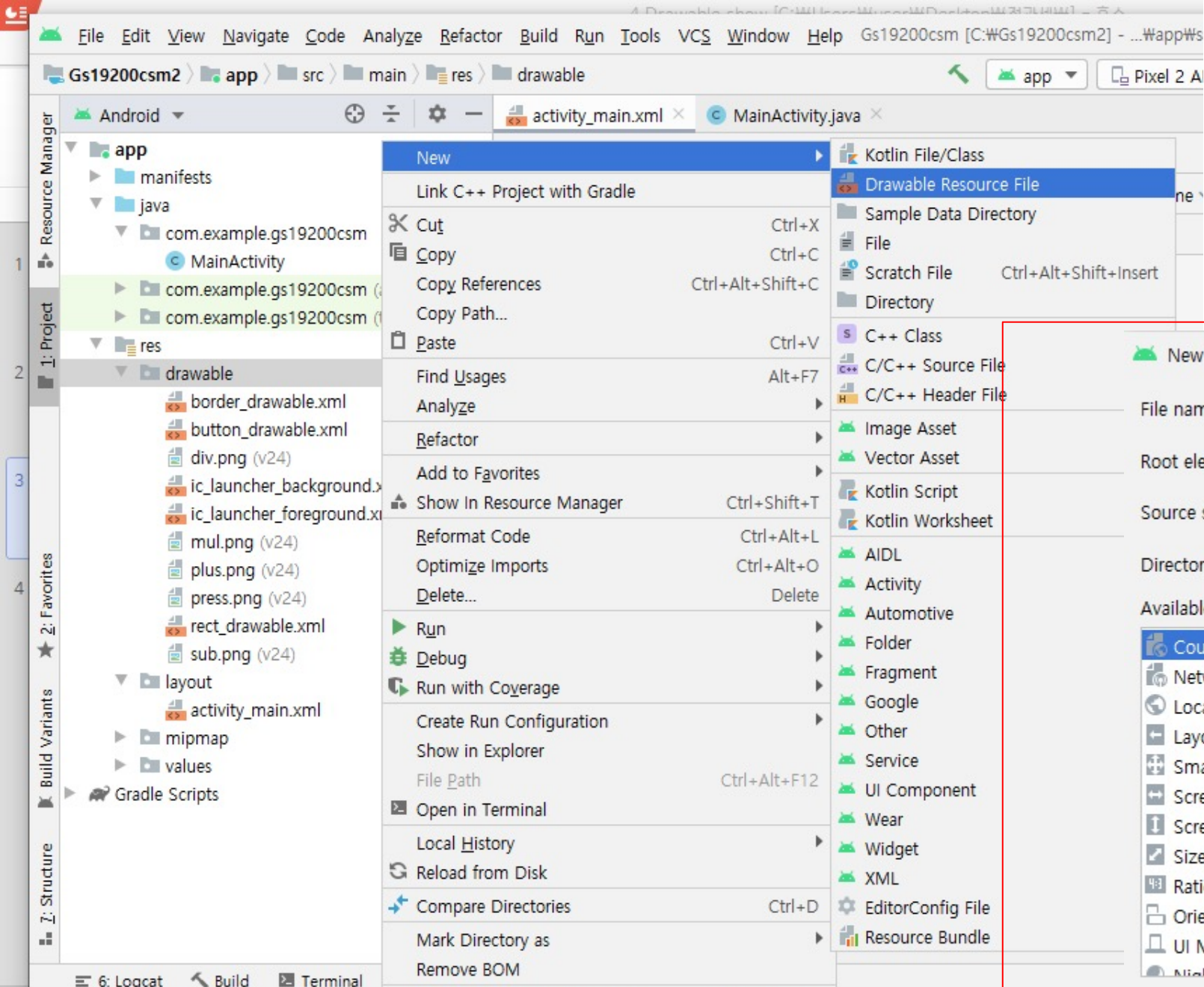


Drawable - 뷰에 설정할 수 있는 객체

◆ 새프로젝트 - Gs20200csm2

The screenshot displays the Android Studio interface with the following components:

- Project Explorer (Left):** Shows the project structure. The `res/drawable` folder is highlighted with a red circle, containing files like `border_drawable.xml`, `button_drawable.xml`, `div.png (v24)`, `ic_launcher_background.xml`, `ic_launcher_foreground.xml (v24)`, `mul.png (v24)`, `plus.png (v24)`, `press.png (v24)`, `rect_drawable.xml`, and `sub.png (v24)`. The `activity_main.xml` file is selected in the `layout` folder.
- Palette (Top Left):** Lists common widgets such as `Button`, `ImageView`, `RecyclerView`, `<fragment>`, `ScrollView`, and `Switch`.
- Component Tree (Bottom Left):** Shows the hierarchy of the layout, including `ConstraintLayout`, `num1 (Plain Text)`, `num2 (Plain Text)`, `result`, `button`, and `button2 "Exit"`.
- Design View (Center):** A visual preview of the activity. It features a yellow background with two text labels, `num1` and `num2`, a blue `Plus` button, and a red `EXIT` button.
- Attributes (Right):** A panel showing the attributes of the selected `<unnamed>` `ConstraintLayout`. It includes declared attributes like `layout_width`, `layout_height`, `background`, and `context`, along with common and all attributes.



drawable 폴더 클릭- 마우스 오른쪽 버튼

button_drawable.xml

border_drawable.xml

rect_drawable.xml

만들기. 세 번 반복

```
activity_main.xml x button_drawable.xml x MainActivity.java x
1 |<?xml version="1.0" encoding="utf-8"?>
2 |<selector xmlns:android="http://schemas.android.com/apk/res/android">
3 |    <item android:state_pressed="true"
4 |        android:drawable="@drawable/press"/>
5 |    <item android:drawable="@drawable/plus"/>
6 |
7 |</selector>
```

```
activity_main.xml x button_drawable.xml x border_drawable.xml x MainActivity.java x
1 |<?xml version="1.0" encoding="utf-8"?>
2 |<layer-list xmlns:android="http://schemas.android.com/apk/res/android">
3 |
4 |    <item>
5 |        <shape android:shape="rectangle">
6 |            <stroke android:width="1dp" android:color="#ff0033"/>
7 |            <solid android:color="#00000000"/>
8 |            <size android:width="100dp" android:height="50dp"/>
9 |        </shape>
10 |    </item>
11 |
12 |    <item android:top="1dp" android:bottom="1dp"
13 |        android:right="1dp" android:left="1dp">
14 |        <shape android:shape="rectangle">
15 |            <stroke android:width="1dp" android:color="#ff0033"/>
16 |            <solid android:color="#00000000" />
17 |        </shape>
18 |    </item>
19 |
20 |
21 |</layer-list>
```


activity_main.xml

button_drawable.xml

border_drawable.xml

rect_drawable.xml

1

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

2

<shape xmlns:android="http://schemas.android.com/apk/res/android">

3

4

<gradient

5

android:startColor="#ffff00"

6

android:centerColor="#ffff66"

7

android:endColor="#ffffff"

8

android:angle="90"

9

android:centerY="0.5"/>

10

11

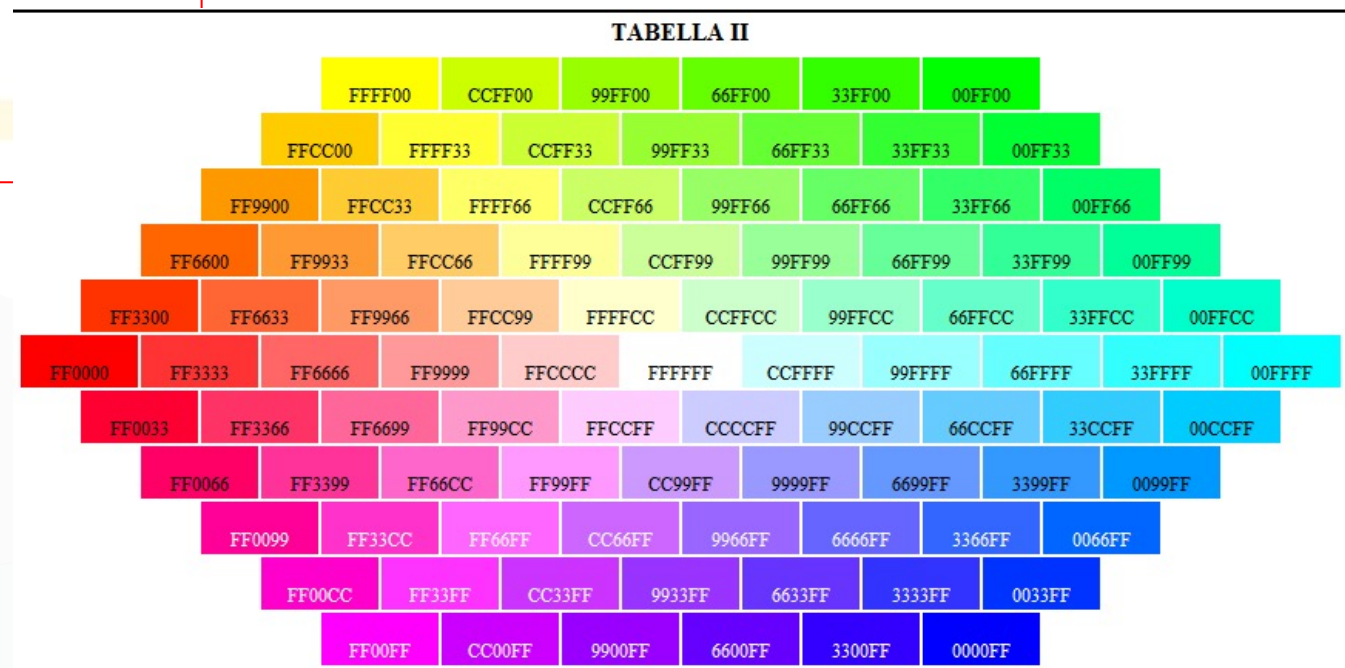
<corners android:radius="2dp"/>

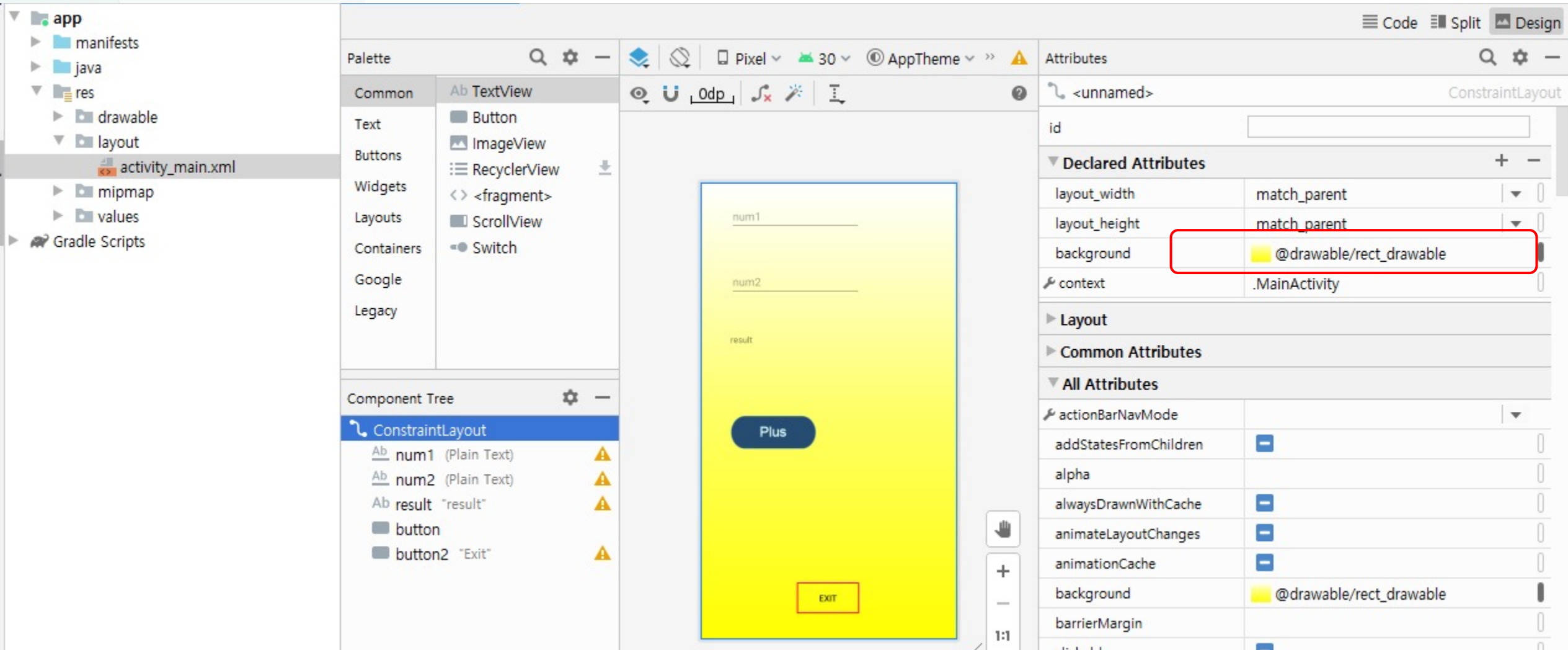
12

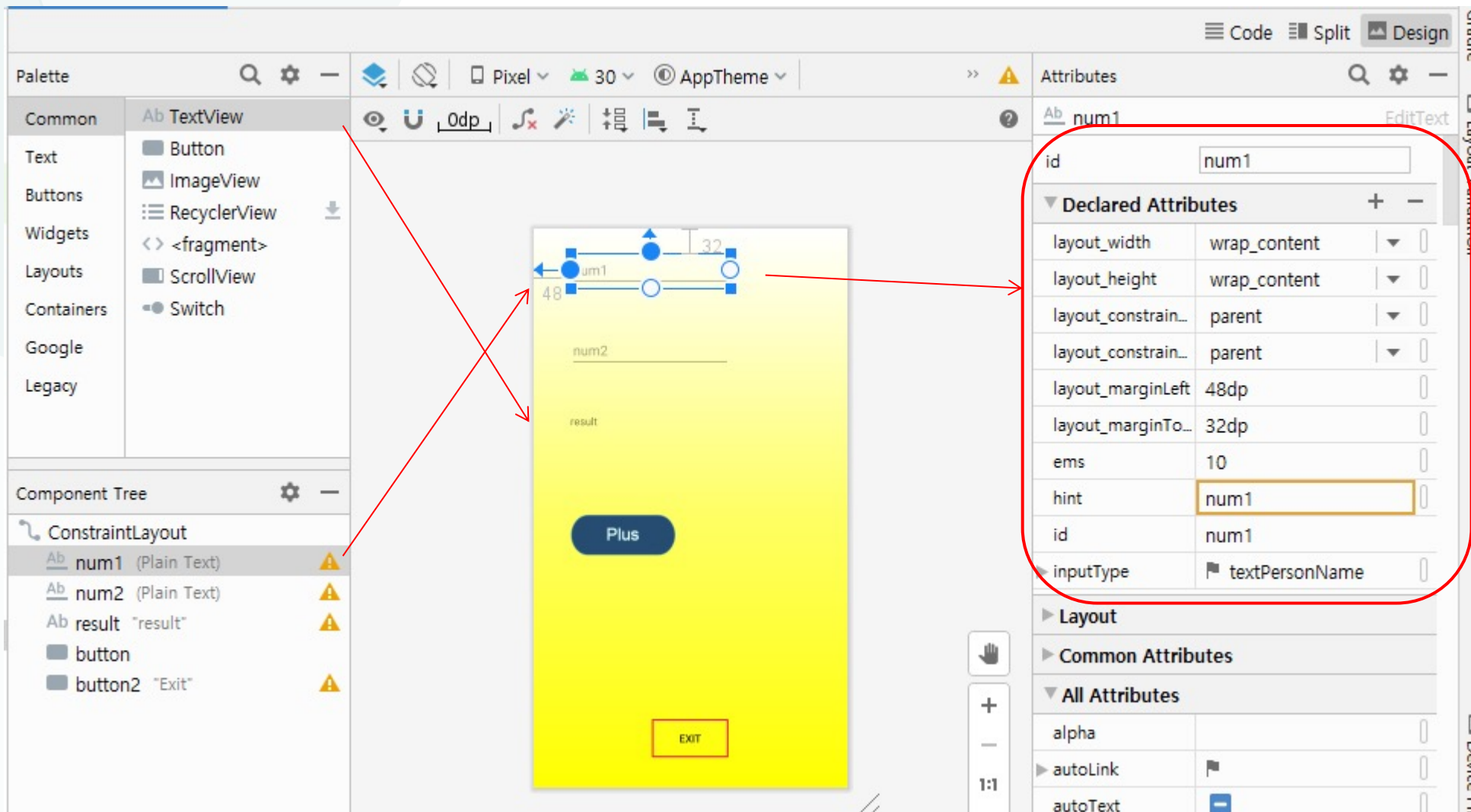
13

14

</shape>







CodeSplitDesign

Palette

Common

Ab TextView

Text

Buttons

Widgets

Layouts

Containers

Google

Legacy

Button

ImageView

RecyclerView

<> <fragment>

ScrollView

Switch

Component Tree

ConstraintLayout

Ab num1 (Plain Text)

Ab num2 (Plain Text)

Ab result "result"

button

button2 "Exit"

Pixel 30 AppTheme Default (en-us)

0dp

num1

num2

result

Plus

48

EXIT

Attributes

button

id button

Declared Attributes

layout_width138dp

layout_height54dp

layout_constraintVertical_bias0.552

layout_constraintBottom_to...parent

layout_constraintStart_toSta...parent

layout_constraintTop_toTop...parent

layout_marginLeft48dp

background@drawable/button_drawable

idbutton

onClickplusClick

Layout

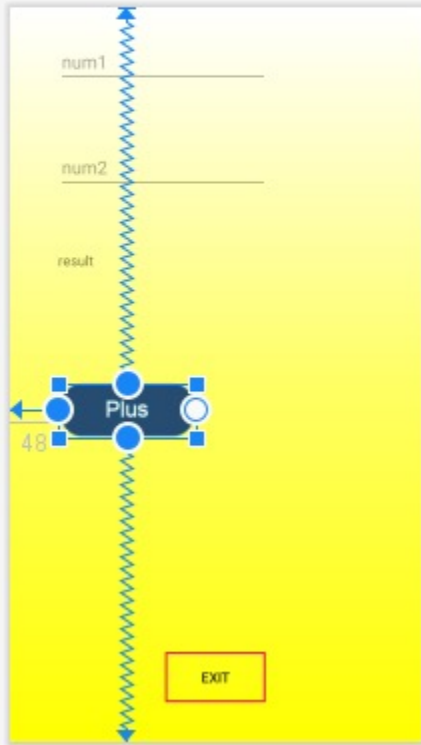
Common Attributes

All Attributes

alpha

autoLink

autoText



activity_main.xml × button_drawable.xml × border_drawable.xml × rect_drawable.xml × MainActivity.java ×

Code Split Design

Palette

Common

- Ab TextView
- Button
- ImageView
- RecyclerView
- <> <fragment>
- ScrollView
- Switch

Text

Buttons

Widgets

Layouts

Containers

Google

Legacy

Component Tree

- ConstraintLayout
 - Ab num1 (Plain Text)
 - Ab num2 (Plain Text)
 - Ab result "result"
 - button
 - button2 "Exit"

num1

num2

result

Plus

EXIT

Attributes

button2

id

button2

Declared Attributes

layout_width	wrap_content
layout_height	wrap_content
layout_constraintHorizontal_...	0.498
layout_constraintVertical_bias	0.942
layout_constraintBottom_to...	parent
layout_constraintEnd_toEnd...	parent
layout_constraintStart_toSta...	parent
layout_constraintTop_toTop...	parent
background	@drawable/border_drawable
id	button2
text	Exit

Layout

Common Attributes

All Attributes

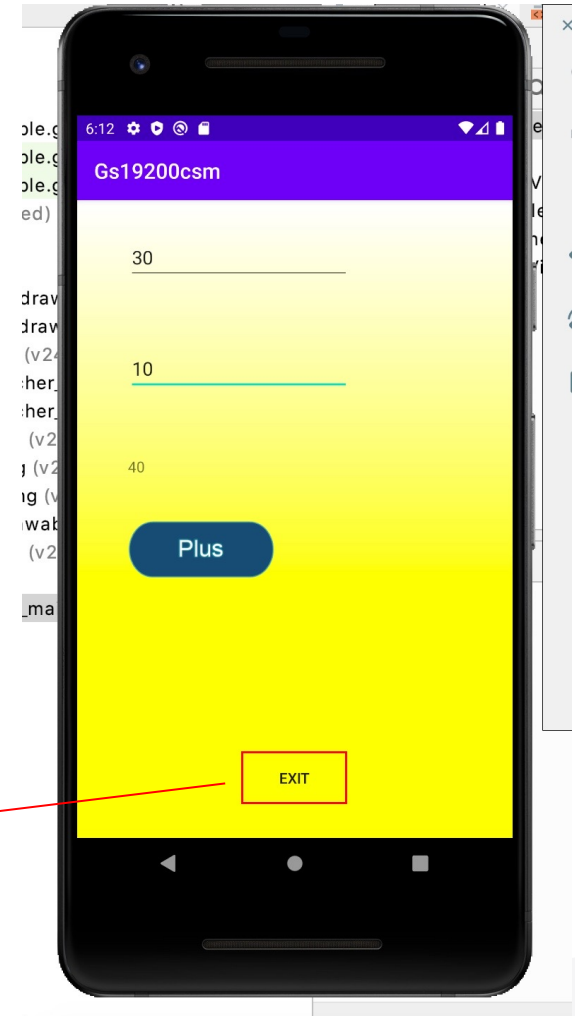
alpha	0
autoLink	

```
1 package com.example.gs19200csm;
2
3 import ...
4
5
6
7
8
9
10 public class MainActivity extends AppCompatActivity {
11
12     @Override
13     protected void onCreate(Bundle savedInstanceState) {
14         super.onCreate(savedInstanceState);
15         setContentView(R.layout.activity_main);
16     }
17
18     public void plusClick(View v) {
19         EditText num1 = (EditText) findViewById(R.id.num1);
20         EditText num2 = (EditText) findViewById(R.id.num2);
21
22         TextView result = (TextView) findViewById(R.id.result);
23
24         int n1 = Integer.parseInt(num1.getText().toString());
25         int n2 = Integer.parseInt(num2.getText().toString());
26         result.setText(Integer.toString(n1 + n2));
27     }
28 }
```

에뮬레이터 실행 동영상 녹화 파일저장은 20XX아무개실습10

- 단추 추가
sub.png (빼기)
mul.png (곱하기)
div.png (나누기)
이미지를 이용하여 버튼 추가.
- [Exit] 버튼을 누르면 종료되는 기능 추가
finish(); 이용

세부사항은 재량



num1, num2 입력->plus클릭->sub클릭->mul클릭->div클릭->Exit 클릭 되는 과정을 녹화