# 스마트폰 프로그래밍 Assign #4

(제목: RadioButtonTest, ChoiceTest)

학번: 2016305078

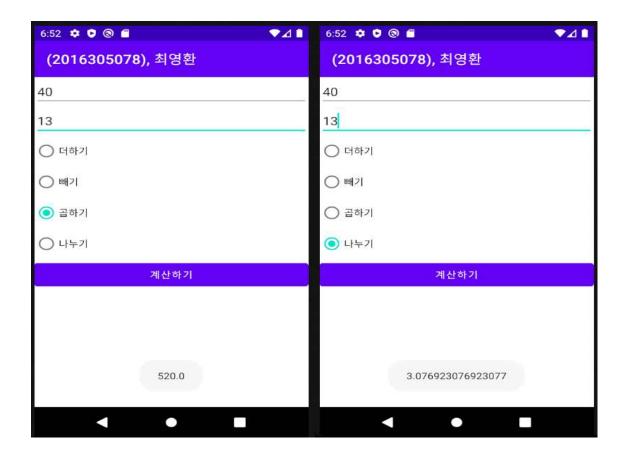
성명: 최 영 환

제출일자 : 2021.9.29

본인은 타인이나 다른 매체를 도용하지 않았음을 확인합니다 <본인사인>

# <실행화면>

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(2016305078), 최영환	(2016305078), 최영환
Num1	40
Num2	13
O 더하기	O 더하기
○ BH71	○ 빼기
곱하기	○ 곱하기
○ 나누기	○ 나누기
계산하기	계산하기
빈칸이 존재합니다.	연산을 선택하지 않았습니다.
<b>→</b> • ■	<b>→ • •</b>
	6:51 ♦ ♦ ۞ 🖬 💎 🗸 🖺
6:51 ❖ ♥ ◎ ■ ▼⊿ ■ (2016305078), 최영환	6:51 ❖ ♥ ⊚ ■ ▼⊿ ■ (2016305078), 최영환
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(2016305078), 최영환 40	<b>(2016305078),</b> 최영환 40
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(2016305078), 최영환 40 13 ⓒ 더하기 ⓒ 빼기	(2016305078), 최영환 40 13
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#### <MainActivity.java>

```
🛎 Android 🔻 🤁 😤 💠 💳 📇 strings xml 🔻 🏮 MainActivity Java 💉 🚜 activity_main.xml
                                     package com.example.radiobuttontest;
  > manifests

in java

✓ 

    com.example.radiobuttc 16

        MainActivity
                                     public class MainActivity extends AppCompatActivity {
     > 🖿 com.example.radiobutto 📆
                                         protected void onCreate(Bundle savedInstanceState) {

✓ I res

                                              super.onCreate(savedInstanceState);
    > 🖿 drawable
         activity_main.xml
     > 🖿 mipmap
                                         public void OnClick(View view) {

✓ ■ values

                                              EditText edit_num1 = (EditText) findViewById(R.id.num1);
        a colors.xml
                                              EditText edit_num2 = (EditText) findViewById(R.id.num2);
          atrings.xml
       > themes (2)
                                              String s_num1 = edit_num1.getText().toString();
    Ires (generated)
> A Gradle Scripts
                                              String s_num2 = edit_num2.getText().toString();
                                              if (s_num1.length() <= 0 || s_num2.length() <= 0)</pre>
                                                   Toast.makeText(getApplicationContext(),
                                                   Double num1 = Double.valueOf(s_num1);
                                                   Double num2 = Double.valueOf(s_num2);
🛎 Android 🔻 😌 😤 🔯 💳 🏭 strings.xml 🗵 🤨 MainActivity.java 🚈 📇 activity_main.xml
                                            RadioGroup radio_group = (RadioGroup) findViewById(R.id.radio_group);
                                                case R.id.udd:
                                                    Toast.makeText(getApplicationContext(),
       MainActivity
                                                           String.valueOf(num1 + num2), Toast.LENGTH_SHORT).show();
    > 🔤 com.example.radiobutts
> 🔄 com.example.radiobutts
                                                case R.id.sub:
                                                   Toast.makeText(getApplicationContext(),
   ■ res
                                                            String.valueOf(num1 - num2), Toast.LENGTH_SHORT).show();
    > drawable

✓ Islavout

                                                case R.id.mul:
                                                           String.valueOf(num1 * num2), Toast.LENGTH_SHORT).show();
       d colors.xml
d strings.xml
                                                case R.id.div:
                                                    Toast.makeText(getApplicationContext(),
      > la themes (2)
res (generated)

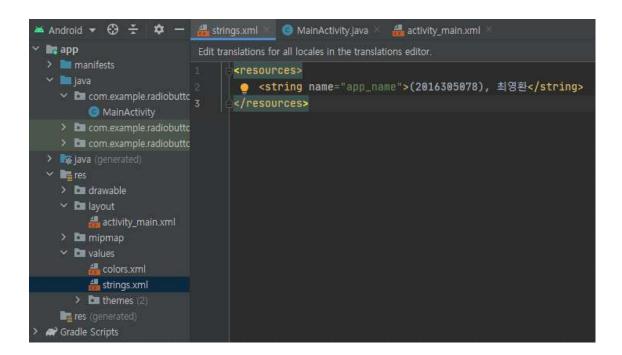
Gradle Scripts
                                                    Toast.makeText(getApplicationContext(),
```

```
package com.example.radiobuttontest;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.EditText;
```

```
import android.widget.RadioGroup;
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 OnClick(View view) {
        EditText edit_num1 = (EditText) findViewById(R.id.num1);
        EditText edit_num2 = (EditText) findViewById(R.id.num2);
        String s_num1 = edit_num1.getText().toString();
        String s_num2 = edit_num2.getText().toString();
        if (s_num1.length() <=0 \parallel s_num2.length() <=0)
            Toast.makeText(getApplicationContext(),
                    "빈칸이 존재합니다.", Toast.LENGTH_SHORT).show();
        else {
            Double num1 = Double.valueOf(s_num1);
            Double num2 = Double.valueOf(s_num2);
            RadioGroup radio_group = (RadioGroup) findViewById(R.id.radio_group);
            switch (radio_group.getCheckedRadioButtonId()) {
                case R.id.add:
                    Toast.makeText(getApplicationContext(),
                             String.valueOf(num1 + num2), Toast.LENGTH_SHORT).show();
                    break;
                case R.id.sub:
                    Toast.makeText(getApplicationContext(),
                             String.valueOf(num1 - num2), Toast.LENGTH_SHORT).show();
                    break:
                case R.id.mul:
                    Toast.makeText(getApplicationContext(),
                             String.valueOf(num1 * num2), Toast.LENGTH_SHORT).show();
                    break:
                case R.id.div:
                    Toast.makeText(getApplicationContext(),
                             String.valueOf(num1 / num2), Toast.LENGTH_SHORT).show();
                    break;
                default:
                    Toast.makeText(getApplicationContext(),
                             "연산을 선택하지 않았습니다.", Toast.LENGTH_SHORT).show();
                    break;
```

```
}
}
```

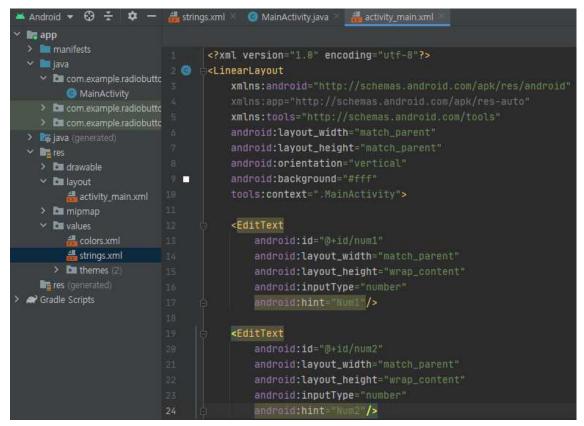
### <string.xml>



#### <resources>

<string name="app\_name">(2016305078), 최영환</string></resources>

#### <activity\_main.xml>



```
🛎 Android 🔻 🤀 🛨 🔯 🗕 🏭 strings.xml
                                          MainActivity.java
                                                            🏭 activity_main.xml
Y 📑 app
                                       <RadioGroup
                                           android:id="@+id/radio_group"

    Image: com.example.radiobuttc

                                           android:layout_width="wrap_content"
         MainActivity
                                           android:layout_height="wrap_content"
    > 🖿 com.example.radiobutto
                                           android:orientation="vertical">
    > 🖿 com.example.radiobutto
  > k java (generated)
                                           <RadioButton
  ∨ res
                                               android:id="@+id/add"
    > 🖿 drawable
                                               android:layout_width="wrap_content"
    layout
                                               android:layout_height="wrap_content"
         🚜 activity_main.xml
                                               android:text="터하기"/>
    > 🖿 mipmap

✓ ■ values

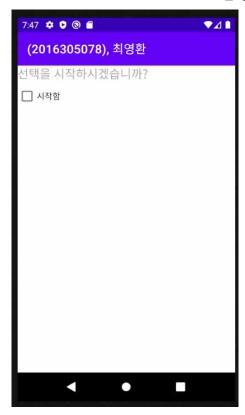
                                           <RadioButton
         acolors.xml
         astrings.xml
                                               android:id="0+id/sub"
       > themes (2)
                                               android:layout_width="wrap_content"
    res (generated)
                                               android:layout_height="wrap_content"
> A Gradle Scripts
                                               android:text="뻬ラ\"/>
                                           <RadioButton
                                               android:id="@+id/mul"
                                               android:layout_width="wrap_content"
                                               android:layout_height="wrap_content"
                                               android:text="곱하기"/>
                                           <RadioButton
                                               android:id="@+id/div"
                                               android:layout_width="wrap_content"
                                               android:layout_height="wrap_content"
                                               android:text="나누기"/>
                                       </RadioGroup>
                                       <Button
                                           android:id="@+id/button"
                                           android:layout_width="match_parent"
                                           android:layout_height="wrap_content"
                                           android:onClick="OnClick"/>
                                  </LinearLayout>
```

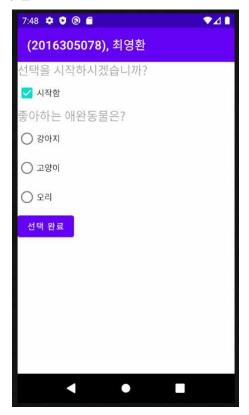
```
<LinearLayout
xmlns:android="http://schemas.android.com/apk/res/android"
xmlns:app="http://schemas.android.com/apk/res-auto"
xmlns:tools="http://schemas.android.com/tools"
android:layout_width="match_parent"
```

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

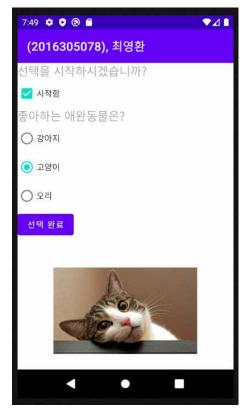
```
android:layout_height="match_parent"
android:orientation="vertical"
android:background="#fff"
tools:context=".MainActivity">
    <EditText
android:id="@+id/num1"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:inputType="number"
android:hint="Num1"/>
    <EditText
android:id="@+id/num2"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:inputType="number"
android:hint="Num2"/>
    < Radio Group
android:id="@+id/radio_group"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:orientation="vertical">
        < Radio Button
android:id="@+id/add"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:text="더하기"/>
        < Radio Button
android:id="@+id/sub"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:text="빼기"/>
        < Radio Button
android:id="@+id/mul"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:text="곱하기"/>
        < Radio Button
android:id="@+id/div"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:text="나누기"/>
```

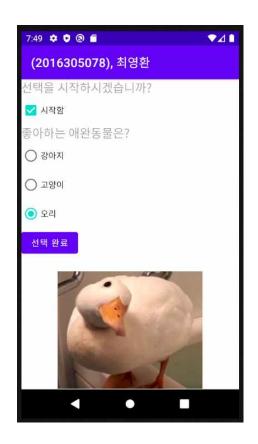
### <실행화면>









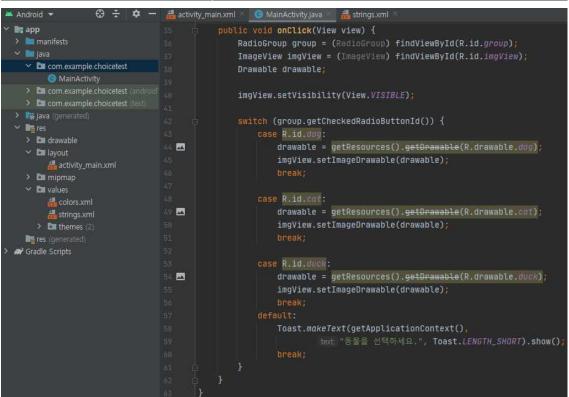


#### <MainActivity.java>

```
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                                          package com.example.choicetest;
🗸 🏣 арр

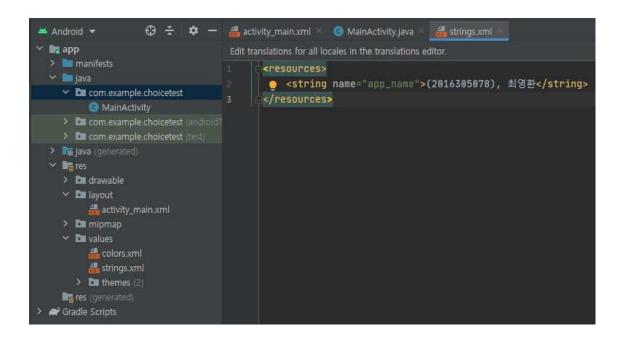
    tom example choicetest

        MainActivity
                                              protected void onCreate(Bundle savedInstanceState) {
  ∨ Illeres
                                                  super.onCreate(savedInstanceState);
                                             public void onCheckboxClicked(View view) {
    values
                                                  RadioGroup group = (RadioGroup) findViewById(R.id.group);
         colors.xml
strings.xml
                                                  ImageView imgView = (ImageView) findViewById(R.id.imgView);
                                                  CheckBox checkbox = (CheckBox) findViewById(R.id.checkbox);
       > t themes (2)
> A Gradle Scripts
                                                      group.setVisibility(View.INVISIBLE);
                                                      imgView.setVisibility(View.INVISIBLE);
```



```
package com.example.choicetest;
import androidx.appcompat.app.AppCompatActivity;
import android.graphics.drawable.Drawable;
import android.os.Bundle;
import android.view.View;
import android.widget.CheckBox;
import android.widget.EditText;
import android.widget.ImageView;
import android.widget.RadioGroup;
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 onCheckboxClicked(View view) {
        RadioGroup group = (RadioGroup) findViewByld(R.id.group);
        ImageView imgView = (ImageView) findViewById(R.id.imgView);
        CheckBox checkbox = (CheckBox) findViewById(R.id.checkbox);
        if (checkbox.isChecked())
            group.setVisibility(View.VISIBLE);
        else {
            group.setVisibility(View.INVISIBLE);
            img View.set Visibility (View.INVISIBLE);\\
        }
    }
    public void onClick(View view) {
        RadioGroup group = (RadioGroup) findViewByld(R.id.group);
        ImageView imgView = (ImageView) findViewByld(R.id.imgView);
        Drawable drawable;
        imgView.setVisibility(View.VISIBLE);
        switch (group.getCheckedRadioButtonId()) {
            case R.id.dog:
                drawable = getResources().getDrawable(R.drawable.dog);
                imgView.setImageDrawable(drawable);
                break;
            case R.id.cat:
                drawable = getResources().getDrawable(R.drawable.cat);
                imgView.setImageDrawable(drawable);
                break:
```

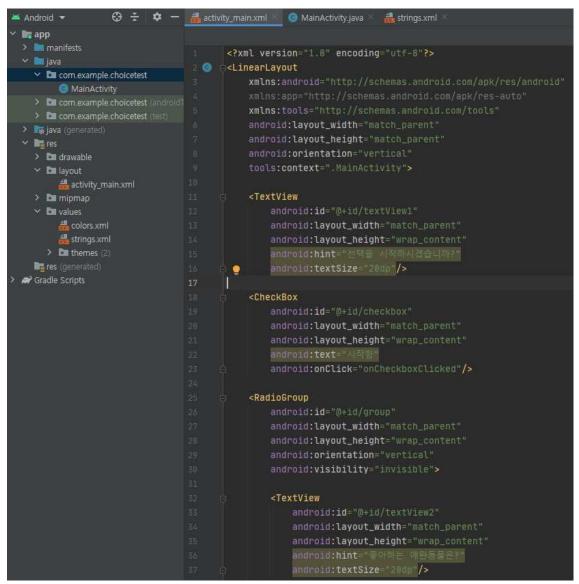
## <string.xml>

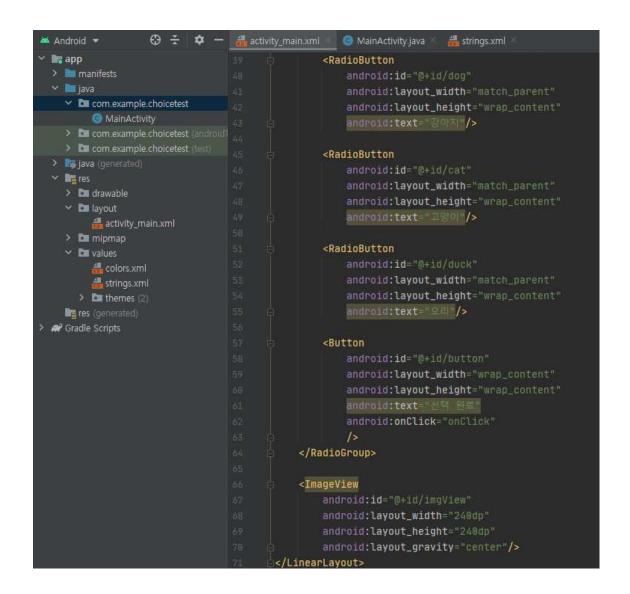


#### <resources>

<string name="app\_name">(2016305078), 최영환</string></resources>

#### <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="vertical"
tools:context=".MainActivity">
    <TextView
android:id="@+id/textView1"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:hint="선택을 시작하시겠습니까?"
android:textSize="20dp"/>
    <CheckBox
android:id="@+id/checkbox"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:text="시작함"
android:onClick="onCheckboxClicked"/>
    < Radio Group
android:id="@+id/group"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:orientation="vertical"
android:visibility="invisible">
        <TextView
android:id="@+id/textView2"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:hint="좋아하는 애완동물은?"
android:textSize="20dp"/>
        < Radio Button
android:id="@+id/dog"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:text="강아지"/>
        < Radio Button
android:id="@+id/cat"
android:layout_width="match_parent"
```

```
android:layout_height="wrap_content"
android:text="고양이"/>
        <RadioButton
android:id="@+id/duck"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:text="오리"/>
        <Button
android:id="@+id/button"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:text="선택 완료"
android:onClick="onClick"
/>
    </RadioGroup >
    <lmageView
android:id="@+id/imgView"
android:layout_width="240dp"
android:layout_height="240dp"
android:layout_gravity="center"/>
</LinearLayout >
```