LAB 3.1

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| 소스코드 < MainActivity.java > |
| **package** org.androidtown.hello;  **import** android.app.SearchManager; **import** android.content.\*; **import** android.graphics.Color; **import** android.net.Uri; **import** android.support.v7.app.AppCompatActivity; **import** android.os.Bundle; **import** android.view.\*; **import** android.webkit.WebView; **import** android.webkit.WebViewClient; **import** android.widget.\*; **import** android.util.\*;  **import** java.util.\*;  **public class** MainActivity **extends** AppCompatActivity {   Button **mBtn**;  **public void** onCreate(Bundle savedInstanceState) {  **super**.onCreate(savedInstanceState);  setContentView(R.layout.***activity\_main***);  **mBtn** = (Button)findViewById(R.id.***button***);  *//버튼메뉴를 길게 나올때 컨텍스트가 되도록 설정합니다.* registerForContextMenu(**mBtn**);  }   *//길게 탭을 하면 컨텍스트 메뉴가 나오게 됩니다.* **public void** onCreateContextMenu (ContextMenu menu, View v,  ContextMenu.ContextMenuInfo menuInfo) {  **super**.onCreateContextMenu(menu, v, menu  Info);  menu.setHeaderTitle(**"Button Menu"**);  *//add ( groupiD , Itemid, order, title ) 로 구성되어 있다.* menu.add(0,1,0,**"Red"**);  menu.add(0,2,0,**"Green"**);  menu.add(0,3,0,**"Blue"**);  }   *//컨택스트 매뉴를 선택했을때 나오는 결과 값에 따라 출력되게 합니다.* **public boolean** onContextItemSelected (MenuItem item) {  *//menu에 선택된 itemid에 따라서 선택되게 합니다.* **switch** (item.getItemId()) {  **case** 1:  **mBtn**.setTextColor(Color.***RED***);  **return true**;  **case** 2:  **mBtn**.setTextColor(Color.***GREEN***);  **return true**;  **case** 3:  **mBtn**.setTextColor(Color.***BLUE***);  **return true**;  }  **return true**;  }} |
| 소스코드 < 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"  android:background="#ffffff"  android:padding="2dp"** >   <**Button  android:id="@+id/button"  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:text="Text Color Change"** /> </**LinearLayout**> |

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LAB 3.2

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| 소스코드 < MainActivity.java > |
| **package** org.androidtown.hello;  **import** android.app.SearchManager; **import** android.content.\*; **import** android.graphics.Color; **import** android.net.Uri; **import** android.support.v7.app.AppCompatActivity; **import** android.os.Bundle; **import** android.view.\*; **import** android.webkit.WebView; **import** android.webkit.WebViewClient; **import** android.widget.\*; **import** android.util.\*;  **import** java.util.\*;  **public class** MainActivity **extends** AppCompatActivity {   *//변수 선언* Button **nextBtn**;  LinearLayout **container**;  EditText **editText**;  RadioButton **radioButton1**;  RadioButton **radioButton2**;  CheckBox **checkBox1**;  CheckBox **checkBox2**;   @Override  **protected void** onCreate(Bundle savedInstanceState) {  **super**.onCreate(savedInstanceState);  setContentView(R.layout.***activity\_main***);   *//editText* **editText** = findViewById(R.id.***editText***);  *//라디오 버튼* **radioButton1** = findViewById(R.id.***radioButton1***);  **radioButton2** = findViewById(R.id.***radioButton2***);  *//체크박스* **checkBox1** = findViewById(R.id.***checkBox1***);  **checkBox2** = findViewById(R.id.***checkBox2***);    *//버튼과 버튼이벤트* **nextBtn** = findViewById(R.id.***nextBtn***);  **nextBtn**.setOnClickListener(**new** View.OnClickListener() {  @Override  **public void** onClick(View v) {   *//intent를 이용해서 다른 activity에 값을 보내줍니다.* Intent intent = **new** Intent(getApplicationContext(), activity\_new.**class**);  *//수신은 어떤걸로 할지를 보내줍니다.* String sendText = **""**;  **if** (**checkBox1**.isChecked() && **checkBox2**.isChecked()) {  sendText = **"SMS, E-mail"**;  } **else if** (**checkBox1**.isChecked()) {  sendText = **"SMS"**;  } **else if** (**checkBox2**.isChecked()) {  sendText = **"E-mail"**;  }  *//성별을 저장한 변수입니다.* String sexText = **""**;  **if** (**radioButton1**.isChecked()) {  sexText = **"남"**;  } **else if** (**radioButton2**.isChecked()) {  sexText = **"여"**;  }  *//번들의 형태로 만들어서 각각 키를 'name', 'sex', 'send' 로 저장합니다.* Bundle bundle = **new** Bundle();  bundle.putString(**"name"**, **editText**.getText().toString());  bundle.putString(**"sex"**, sexText);  bundle.putString(**"send"**, sendText);  *//엑티비티를 저장합니다.* intent.putExtras(bundle);  *//intent를 불러옵니다.* startActivity(intent);  }  });    }   } |

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| 소스코드 < activity\_new.java> |
| **package** org.androidtown.hello;  **import** android.app.Service; **import** android.os.IBinder; **import** android.support.v7.app.AppCompatActivity; **import** android.os.Bundle; **import** android.content.\*; **import** android.widget.\*; **import** android.view.View;  **public class** activity\_new **extends** AppCompatActivity {   *//각각 위젯에 맞는 변수를 선언해줍니다.* Button **button1**;  TextView **nameText**;  TextView **sexText**;  TextView **sendText**;   @Override  **protected void** onCreate(Bundle savedInstanceState) {  **super**.onCreate(savedInstanceState);  setContentView(R.layout.***activity\_new***);   *//변수들을 id와 매칭시켜줍니다.* **button1** = findViewById(R.id.***backButton***);  **nameText** = findViewById(R.id.***nameText***);  **sexText** = findViewById(R.id.***sexText***);  **sendText** = findViewById(R.id.***sendText***);   *//intend를 가져옵니다.* Intent mainIntent=getIntent();  *//각각이름과 나이의 값을 저장하고 Toast를 이용해서 출력한다.* String name = mainIntent.getStringExtra(**"name"**);  String sex = mainIntent.getStringExtra(**"sex"**);  String send = mainIntent.getStringExtra(**"send"**);   *//각텍스트에 이름을 설정합니다.* **nameText**.setText(name);  **sexText**.setText(sex);  **sendText**.setText(send);    }   **public void** backButtonEvent(View view){  *//activity\_new를 완료하고 원래 main으로 돌아간다.* finish();  } } |

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| 소스코드 < active\_new.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="org.androidtown.hello.activity\_new"**>    <**TableLayout  android:layout\_width="match\_parent"  android:layout\_height="wrap\_content"  android:stretchColumns="2"**>   <**TableRow  android:layout\_width="match\_parent"  android:layout\_height="match\_parent"**>   <**TextView  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:text="성명"** />   <**TextView  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:text=":"** />   <**TextView  android:id="@+id/nameText"  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:text="이름"** />   </**TableRow**>   <**TableRow  android:layout\_width="match\_parent"  android:layout\_height="match\_parent"**>   <**TextView  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:text="성별"** />  <**TextView  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:text=":"** />  <**TextView  android:id="@+id/sexText"  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:text="성별"** />   </**TableRow**>   <**TableRow  android:layout\_width="match\_parent"  android:layout\_height="match\_parent"**>   <**TextView  android:layout\_width="60dp"  android:layout\_height="wrap\_content"  android:text="수신여부"** />  <**TextView  android:layout\_width="10dp"  android:layout\_height="wrap\_content"  android:text=":"** />  <**TextView  android:id="@+id/sendText"  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:text="수신여부"** />  </**TableRow**>   </**TableLayout**>  <**Button  android:id="@+id/backButton"  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:layout\_gravity="right"  android:onClick="backButtonEvent"  android:text="돌아가기"** /> </**LinearLayout**> |

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| 소스코드 < 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:background="#ffffff"  android:orientation="vertical"  android:padding="2dp"**>    <**TableLayout  android:layout\_width="match\_parent"  android:layout\_height="wrap\_content"  android:stretchColumns="2"**>   <**TableRow  android:layout\_width="match\_parent"  android:layout\_height="match\_parent"**>   <**TextView  android:id="@+id/textView2"  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:text="성명"** />   <**EditText  android:id="@+id/editText"  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:layout\_span="2"** />  </**TableRow**>   <**TableRow  android:layout\_width="match\_parent"  android:layout\_height="match\_parent"**>   <**TextView  android:id="@+id/textView3"  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:text="성별"** />   <**RadioGroup  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:orientation="horizontal"**>   <**RadioButton  android:id="@+id/radioButton1"  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:layout\_weight="1"  android:text="남"** />   <**RadioButton  android:id="@+id/radioButton2"  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:layout\_weight="1"  android:text="여"** />  </**RadioGroup**>  </**TableRow**>   <**TableRow  android:layout\_width="match\_parent"  android:layout\_height="match\_parent"**>   <**TextView  android:id="@+id/textView4"  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:text="수신여부"** />   <**CheckBox  android:id="@+id/checkBox1"  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:layout\_weight="0"  android:text="SMS"** />   <**CheckBox  android:id="@+id/checkBox2"  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:layout\_weight="1"  android:text="E-mail"** />   </**TableRow**>   </**TableLayout**>   <**Button  android:id="@+id/nextBtn"  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:layout\_gravity="right"  android:text="등록"** />   </**LinearLayout**> |

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LAB 3.3

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| 소스코드 < MainActivity.java > |
| **package** org.androidtown.hello;  **import** android.app.SearchManager; **import** android.content.\*; **import** android.graphics.Color; **import** android.net.Uri; **import** android.support.v7.app.AppCompatActivity; **import** android.os.Bundle; **import** android.view.\*; **import** android.webkit.WebView; **import** android.webkit.WebViewClient; **import** android.widget.\*; **import** android.util.\*;  **import** java.util.\*;  **public class** MainActivity **extends** AppCompatActivity {   *//변수 선언* **public** Button **btn\_frag1**;  **public** Button **btn\_frag2**;  Fragment1 **fragment1**;  Fragment2 **fragment2**;   @Override  **protected void** onCreate(Bundle savedInstanceState) {  **super**.onCreate(savedInstanceState);  setContentView(R.layout.***activity\_main***);  *//초기값을 설정해줍니다.* init();  *//버튼 리스너를 설정합니다.* setListener();  }   **public void** setListener(){   *//각 버튼에 해당하는 fragment를 불러옵니다.* **btn\_frag1**.setOnClickListener(**new** View.OnClickListener() {  @Override  **public void** onClick(View v) {  getSupportFragmentManager().beginTransaction().replace(R.id.***container***, **fragment1**).commit();  }  });   **btn\_frag2**.setOnClickListener(**new** View.OnClickListener() {  @Override  **public void** onClick(View v) {  getSupportFragmentManager().beginTransaction().replace(R.id.***container***, **fragment2**).commit();  }  });  }   **public void** init(){  *//버튼 변수를 선언합니다* **btn\_frag1** = findViewById(R.id.***btn\_frag1***);  **btn\_frag2** = findViewById(R.id.***btn\_frag2***);  *//fragment의 변수의 값을 정해줍니다.* **fragment1** = **new** Fragment1();  **fragment2** = **new** Fragment2();  } } |

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| 소스코드 < 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:background="#ffffff"  android:orientation="vertical"  android:padding="2dp"**>   <**LinearLayout  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:orientation="horizontal"**>  <**Button  android:id="@+id/btn\_frag1"  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:layout\_weight="1"  android:text="TAB1"**/>  <**Button  android:id="@+id/btn\_frag2"  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:layout\_weight="1"  android:text="TAB2"**/>    </**LinearLayout**>   <**FrameLayout  android:id="@+id/container"  android:layout\_width="371dp"  android:layout\_height="match\_parent"  android:layout\_gravity="bottom"**>   </**FrameLayout**> </**LinearLayout**> |

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| 소스코드 < Fragment1.java> |
| **package** org.androidtown.hello;  **import** android.os.Bundle; **import** android.support.annotation.Nullable; **import** android.support.v4.app.Fragment; **import** android.view.LayoutInflater; **import** android.view.View; **import** android.view.ViewGroup; **import** android.widget.\*;  */\*\*  \* Created by junsic on 2018-04-16.  \*/* **public class** Fragment1 **extends** Fragment {  @Nullable  @Override  **public** View onCreateView(LayoutInflater inflater, @Nullable ViewGroup container, @Nullable Bundle savedInstanceState){  *//fragment를 불러옵니다.* ViewGroup rootView = (ViewGroup) inflater.inflate(R.layout.***fragment1***, container, **false**);  **return** rootView;  } } |
| 소스코드 < Fragment1.xml> |
| *<?***xml version="1.0" encoding="utf-8"***?>* <**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/lblFragment1"  android:layout\_width="match\_parent"  android:layout\_height="wrap\_content"  android:text="First Fragment"  android:textSize="30sp"** />   <**ImageView  android:layout\_width="match\_parent"  android:layout\_height="match\_parent"  android:scaleType="fitXY"  android:src="@drawable/testpng"** />   </**LinearLayout**> |

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| 소스코드 < Fragment2.java> |
| **package** org.androidtown.hello;  **import** android.os.Bundle; **import** android.support.annotation.Nullable; **import** android.support.v4.app.Fragment; **import** android.view.LayoutInflater; **import** android.view.View; **import** android.view.ViewGroup; **import** android.widget.\*;  */\*\*  \* Created by junsic on 2018-04-16.  \*/* **public class** Fragment2 **extends** Fragment {  @Nullable  @Override  **public** View onCreateView(LayoutInflater inflater, @Nullable ViewGroup container, @Nullable Bundle savedInstanceState){  *//fragment를 불러옵니다.* ViewGroup rootView = (ViewGroup) inflater.inflate(R.layout.***fragment2***, container, **false**);  **return** rootView;  } } |
| 소스코드 < Fragment2.xml> |
| *<?***xml version="1.0" encoding="utf-8"***?>* <**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:layout\_width="match\_parent"  android:layout\_height="wrap\_content"  android:text="Second fragment"  android:textSize="30sp"** />    <**ImageView  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:src="@drawable/testpng"** />    </**LinearLayout**> |

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