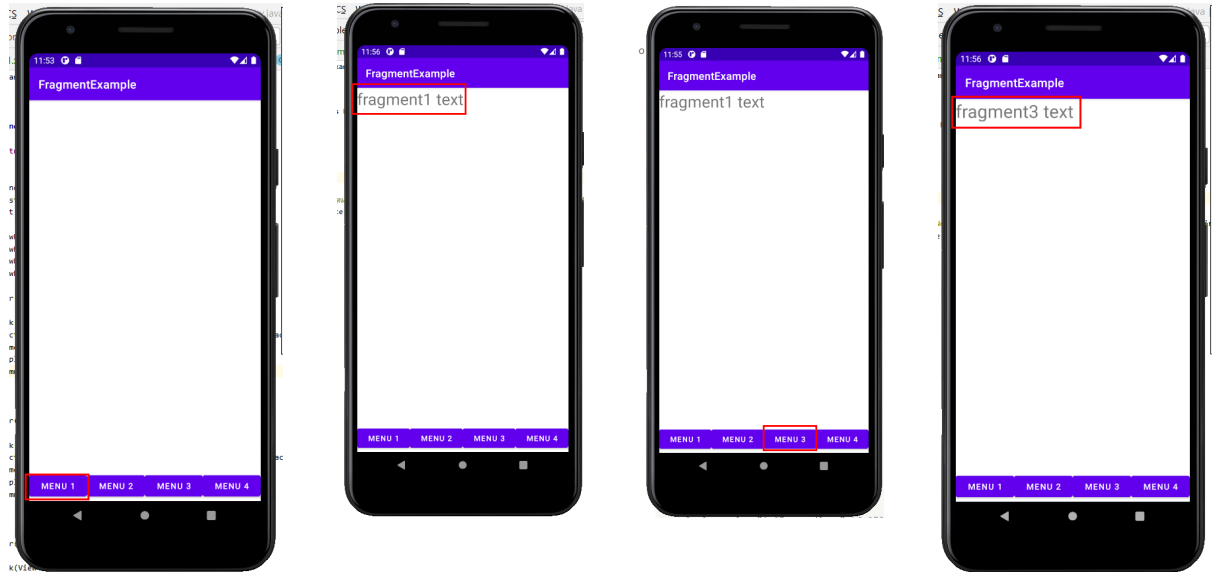


09 Fragment (bottom navigation에 유용)

결과



하단 메뉴를 누르면 연결해놓은 해당 fragment로 전환한다. 하단바 네비게이션을 만들 때 유용하다. 인스타그램과 같은 어플에서도 활용되는 요소이다.

1. activity_main.xml 코드

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

    <FrameLayout
        android:id="@+id/frame"
        android:layout_width="match_parent"
        android:layout_height="match_parent">
    </FrameLayout>

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="50dp"
        android:layout_alignParentBottom="true">
```

```

<Button
    android:id="@+id/btn_1"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_weight="1"
    android:text="menu 1"/>

<Button
    android:id="@+id/btn_2"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_weight="1"
    android:text="menu 2"/>

<Button
    android:id="@+id/btn_3"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_weight="1"
    android:text="menu 3"/>

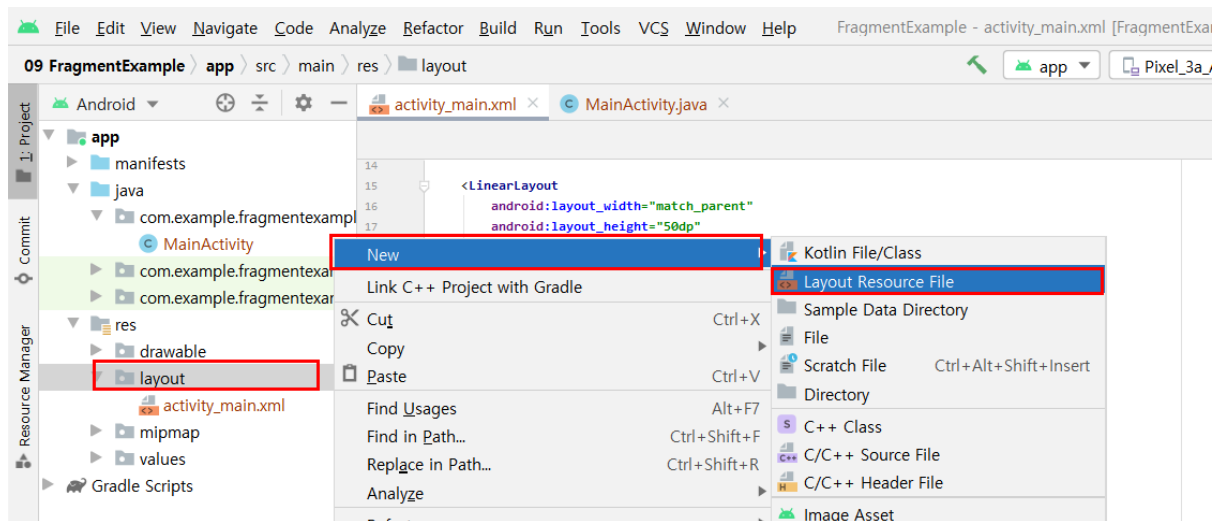
<Button
    android:id="@+id/btn_4"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_weight="1"
    android:text="menu 4"/>

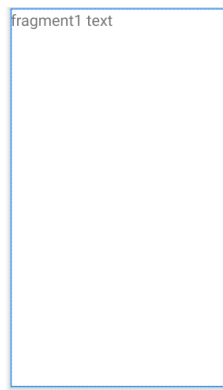
</LinearLayout>

</RelativeLayout>

```

2. fragment1.xml, fragment2.xml, fragment3.xml, fragment4.xml 생성





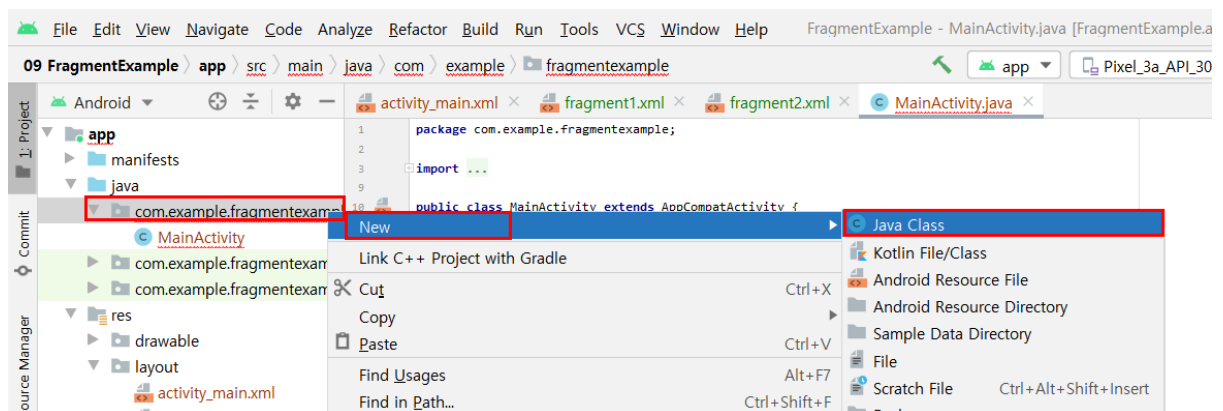
- fragment1.xml

```
<?xml version="1.0" encoding="utf-8"?>
<FrameLayout
    xmlns:android="http://schemas.android.com/apk/res/android" android:layout_width="match_parent"
    android:layout_height="match_parent">

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:textSize="30sp"
        android:text="fragment1 text"/>

</FrameLayout>
```

3. Fragment1.java, Fragment2.java, Fragment3.java, Fragment4.java 생성



```
package com.example.fragmentexample;

import android.os.Bundle;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
```

```

import androidx.annotation.NonNull;
import androidx.annotation.Nullable;
import androidx.fragment.app.Fragment;

public class Fragment1 extends Fragment {

    public Fragment1() {

    }

    @Nullable
    @Override
    public View onCreateView(@NonNull LayoutInflater inflater, @Nullable ViewGroup container, @Nullable Bundle savedInstanceState) {
        return inflater.inflate(R.layout.fragment1, container, false);
    }
}

```

4. MainActivity.java 코드

```

package com.example.fragmentexample;

import androidx.appcompat.app.AppCompatActivity;
import androidx.fragment.app.FragmentTransaction;

import android.os.Bundle;
import android.view.View;
import android.widget.Button;

public class MainActivity extends AppCompatActivity {

    Button btn1, btn2, btn3, btn4;

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

        btn1 = (Button)findViewById(R.id.btn_1);
        btn2 = (Button)findViewById(R.id.btn_2);
        btn3 = (Button)findViewById(R.id.btn_3);
        btn4 = (Button)findViewById(R.id.btn_4);

        btn1.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                FragmentTransaction transaction = getSupportFragmentManager().beginTransaction();
                Fragment1 fragment1 = new Fragment1();
                transaction.replace(R.id.frame, fragment1);
                transaction.commit();
            }
        });

        btn2.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                FragmentTransaction transaction = getSupportFragmentManager().beginTransaction();
                Fragment2 fragment2 = new Fragment2();
                transaction.replace(R.id.frame, fragment2);
            }
        });
    }
}

```

```

        transaction.commit();
    }
});

btn3.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        FragmentTransaction transaction = getSupportFragmentManager().beginTransaction();
        Fragment3 fragment3 = new Fragment3();
        transaction.replace(R.id.frame, fragment3);
        transaction.commit();
    }
});

btn4.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        FragmentTransaction transaction = getSupportFragmentManager().beginTransaction();
        Fragment4 fragment4 = new Fragment4();
        transaction.replace(R.id.frame, fragment4);
        transaction.commit();
    }
});
}
}

```