

```
<?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">

    <fragment
        android:id="@+id/listFragment"
        android:name="com.ict.ex41_listfragment.ListFragment"
        android:layout_width="match_parent"
        android:layout_height="0dp"
        android:layout_weight="1"/>

    <fragment
        android:id="@+id/viewFragment"
        android:name="com.ict.ex41_listfragment.ViewFragment"
        android:layout_width="match_parent"
        android:layout_height="0dp"
        android:layout_weight="4"/>

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="0dp"
        android:layout_weight="4">

        <TextView
            android:text="Activity 화면"
            android:textSize="40sp"
            android:layout_marginTop="40sp"
            android:textAlignment="center"
            android:layout_width="match_parent"
            android:layout_height="wrap_content" />
    </LinearLayout>
</LinearLayout>
```



```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.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">

    <Button
        android:id="@+id/button1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="페이지1"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.108"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.038" />

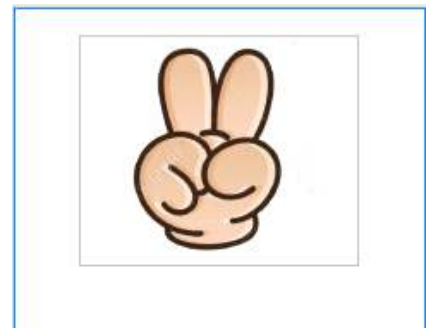
    <Button
        android:id="@+id/button2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="페이지2"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.498"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.038" />

    <Button
        android:id="@+id/button3"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="페이지3"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.866"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.038" />
</androidx.constraintlayout.widget.ConstraintLayout>
```



```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.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">

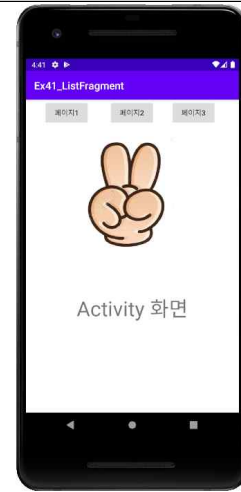
    <ImageView
        android:id="@+id/imageView"
        android:layout_width="279dp"
        android:layout_height="229dp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.496"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.056"
        app:srcCompat="@drawable/one" />
</androidx.constraintlayout.widget.ConstraintLayout>
```



```
// ListFragment에 존재하는 인터페이스를 오버라이딩 한다.
public class MainActivity extends AppCompatActivity implements
ListFragment.ButtonSelectionCallback{
ListFragment listFragment;
ViewFragment viewFragment;
// 이미지 배열
int[] images = {R.drawable.one, R.drawable.two, R.drawable.three };
@Override
protected void onCreate(Bundle savedInstanceState) {
super.onCreate(savedInstanceState);
setContentView(R.layout.activity_main);

FragmentManager manager = getSupportFragmentManager();
// layout-activity.main.xml에 fragment에 존재하는 아이디
listFragment = (ListFragment)manager.findFragmentById(R.id.listFragment);
viewFragment = (ViewFragment)manager.findFragmentById(R.id.viewFragment);
}

@Override
public void onButtonSelected(int position) {
viewFragment.setImageView(images[position]);
}
}
```



```
public class ListFragment extends Fragment {
// callback 함수 사용
public ButtonSelectionCallback callback;

// 인터페이스를 이용한 call 함수 ( 이벤트 처리하기 위해서 )
public interface ButtonSelectionCallback{
public void onButtonSelected(int position);
}

@Nullable
@Override
public View onCreateView(@NonNull LayoutInflater inflater, @Nullable ViewGroup
container,
@Nullable Bundle savedInstanceState) {
ViewGroup vg =
(ViewGroup)inflater.inflate(R.layout.list_fragment,container,false);
Button button1 = vg.findViewById(R.id.button1);
Button button2 = vg.findViewById(R.id.button2);
Button button3 = vg.findViewById(R.id.button3);

// position을 0,1,2로 주는 이유는 배열처리를 하기 위함이다.
button1.setOnClickListener(new View.OnClickListener() {
@Override
public void onClick(View view) {
callback.onButtonSelected(0);
}
});
button2.setOnClickListener(new View.OnClickListener() {
@Override
public void onClick(View view) {
callback.onButtonSelected(1);
}
});
button3.setOnClickListener(new View.OnClickListener() {
@Override
public void onClick(View view) {
callback.onButtonSelected(2);
}
});
return vg;
}

@Override
public void onAttach(@NonNull Context context) {
super.onAttach(context);
// 콜백 객체가 만들어질때 실행 해주세요
if (context instanceof ButtonSelectionCallback){
callback = (ButtonSelectionCallback)context;
}
}

@Override
public void onDetach() {
super.onDetach();
}
}
```



```
public class ViewFragment extends Fragment {
ImageView imageView;
@Nullable
@Override
public View onCreateView(@NonNull LayoutInflater inflater, @Nullable ViewGroup
container, @Nullable Bundle savedInstanceState) {
ViewGroup vg =
(ViewGroup)inflater.inflate(R.layout.view_fragment,container,false);
imageView = vg.findViewById(R.id.imageView);
return vg;
}

// 이미지를 채우는 메소드
public void setImageView(int resId){
//이미지 뷰에 이미지 넣기
imageView.setImageResource(resId);
}
}
```

