Activity\_main.xml

*<?***xml version="1.0" encoding="utf-8"***?>*<**android.support.constraint.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"  
 tools:context=".MainActivity"**>  
  
 <**FrameLayout  
 android:id="@+id/fragment\_one\_container"  
 android:layout\_width="391dp"  
 android:layout\_height="347dp"  
 android:layout\_marginStart="8dp"  
 android:layout\_marginLeft="8dp"  
 android:layout\_marginTop="8dp"  
 android:layout\_marginEnd="8dp"  
 android:layout\_marginRight="8dp"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"**>  
  
 </**FrameLayout**>  
  
 <**FrameLayout  
 android:id="@+id/fragment\_two\_container"  
 android:layout\_width="395dp"  
 android:layout\_height="360dp"  
 android:layout\_marginStart="8dp"  
 android:layout\_marginLeft="8dp"  
 android:layout\_marginEnd="8dp"  
 android:layout\_marginRight="8dp"  
 android:layout\_marginBottom="8dp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/fragment\_one\_container"**>  
  
 </**FrameLayout**>  
</**android.support.constraint.ConstraintLayout**>

fragment\_one.xml

*<?***xml version="1.0" encoding="utf-8"***?>*<**android.support.constraint.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"  
 tools:context=".MainActivity"**>  
  
 <**TextView  
 android:id="@+id/textViewF1"  
 android:layout\_width="match\_parent"  
 android:layout\_height="60dp"  
 android:layout\_gravity="center\_horizontal"  
 android:layout\_marginStart="8dp"  
 android:layout\_marginLeft="8dp"  
 android:layout\_marginEnd="8dp"  
 android:layout\_marginRight="8dp"  
 android:gravity="center"  
 android:text="Fragment1"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.0"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 tools:ignore="MissingConstraints"** />  
  
 <**Button  
 android:id="@+id/buttonPlusF1"  
 android:layout\_width="198dp"  
 android:layout\_height="60dp"  
 android:layout\_marginStart="8dp"  
 android:layout\_marginLeft="8dp"  
 android:layout\_marginTop="88dp"  
 android:onClick="buttonPlusF1Click"  
 android:text="+"  
 app:layout\_constraintEnd\_toStartOf="@+id/buttonMinusF1"  
 app:layout\_constraintHorizontal\_bias="0.5"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 tools:ignore="MissingConstraints"** />  
  
 <**Button  
 android:id="@+id/buttonMinusF1"  
 android:layout\_width="201dp"  
 android:layout\_height="60dp"  
 android:layout\_marginTop="88dp"  
 android:text="-"  
 android:onClick="buttonMinusF1Click"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.5"  
 app:layout\_constraintStart\_toEndOf="@+id/buttonPlusF1"  
 app:layout\_constraintTop\_toTopOf="parent"  
 tools:ignore="MissingConstraints"** />  
  
 <**TextView  
 android:id="@+id/textView2F1"  
 android:layout\_width="match\_parent"  
 android:layout\_height="60dp"  
 android:layout\_gravity="center\_horizontal"  
 android:layout\_marginStart="8dp"  
 android:layout\_marginLeft="8dp"  
 android:layout\_marginTop="180dp"  
 android:layout\_marginEnd="8dp"  
 android:layout\_marginRight="8dp"  
 android:layout\_marginBottom="504dp"  
 android:gravity="center"  
 android:text=""  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.0"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="@+id/textViewF1"  
 app:layout\_constraintVertical\_bias="0.0"  
 tools:ignore="MissingConstraints"** />  
  
</**android.support.constraint.ConstraintLayout**>

fragment\_two.xml

*<?***xml version="1.0" encoding="utf-8"***?>*<**android.support.constraint.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"  
 tools:context=".MainActivity"**>  
  
 <**TextView  
 android:id="@+id/textViewF2"  
 android:layout\_width="match\_parent"  
 android:layout\_height="60dp"  
 android:layout\_gravity="center\_horizontal"  
 android:layout\_marginStart="8dp"  
 android:layout\_marginLeft="8dp"  
 android:layout\_marginEnd="8dp"  
 android:layout\_marginRight="8dp"  
 android:gravity="center"  
 android:text="Fragment2"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.0"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 tools:ignore="MissingConstraints"** />  
  
 <**Button  
 android:id="@+id/buttonPlusF2"  
 android:layout\_width="198dp"  
 android:layout\_height="60dp"  
 android:layout\_marginStart="8dp"  
 android:layout\_marginLeft="8dp"  
 android:layout\_marginTop="88dp"  
 android:text="+"  
 android:onClick="buttonPlusF2Click"  
 app:layout\_constraintEnd\_toStartOf="@+id/buttonMinusF2"  
 app:layout\_constraintHorizontal\_bias="0.5"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 tools:ignore="MissingConstraints"** />  
  
 <**Button  
 android:id="@+id/buttonMinusF2"  
 android:layout\_width="201dp"  
 android:layout\_height="60dp"  
 android:layout\_marginTop="88dp"  
 android:text="-"  
 android:onClick="buttonMinusF2Click"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.5"  
 app:layout\_constraintStart\_toEndOf="@+id/buttonPlusF2"  
 app:layout\_constraintTop\_toTopOf="parent"  
 tools:ignore="MissingConstraints"** />  
  
 <**TextView  
 android:id="@+id/textView2F2"  
 android:layout\_width="match\_parent"  
 android:layout\_height="60dp"  
 android:layout\_gravity="center\_horizontal"  
 android:layout\_marginStart="8dp"  
 android:layout\_marginLeft="8dp"  
 android:layout\_marginTop="180dp"  
 android:layout\_marginEnd="8dp"  
 android:layout\_marginRight="8dp"  
 android:layout\_marginBottom="8dp"  
 android:gravity="center"  
 android:text=""  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="1.0"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="@+id/textViewF2"  
 app:layout\_constraintVertical\_bias="0.0"  
 tools:ignore="MissingConstraints"** />  
  
</**android.support.constraint.ConstraintLayout**>

MainActivity.java

**import** android.support.v4.app.FragmentManager;  
**import** android.support.v4.app.FragmentTransaction;  
**import** android.support.v7.app.AppCompatActivity;  
**import** android.os.Bundle;  
**import** android.view.View;  
**import** android.widget.Button;  
**import** android.widget.TextView;  
  
**public class** MainActivity **extends** AppCompatActivity {  
  
 **public static** FragmentManager *fragmentManager*;  
 **public static int** *temp1* = 0;  
 **public static int** *temp2* = 0;  
  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_main***);  
  
 *fragmentManager* = getSupportFragmentManager();  
  
 **if**(findViewById(R.id.***fragment\_one\_container***)!=**null**){  
 **if**(savedInstanceState!=**null**){  
 **return**;  
 }  
 FragmentTransaction fragmentTransaction = *fragmentManager*.beginTransaction();  
 FragmentOne homeFragment = **new** FragmentOne();  
 fragmentTransaction.add(R.id.***fragment\_one\_container***,homeFragment,**null**);  
 fragmentTransaction.commit();  
 }  
 **if**(findViewById(R.id.***fragment\_two\_container***)!=**null**){  
 **if**(savedInstanceState!=**null**){  
 **return**;  
 }  
 FragmentTransaction fragmentTransaction = *fragmentManager*.beginTransaction();  
 FragmentTwo homeFragment = **new** FragmentTwo();  
 fragmentTransaction.add(R.id.***fragment\_two\_container***,homeFragment,**null**);  
 fragmentTransaction.commit();  
 }  
  
  
 }  
  
 **public void** buttonPlusF1Click(View view) {  
 FragmentTransaction fragmentTransaction = *fragmentManager*.beginTransaction();  
 FragmentTwo fragmentTwo = **new** FragmentTwo();  
 fragmentTransaction.add(R.id.***fragment\_two\_container***,fragmentTwo,**null**);  
  
 TextView text = findViewById(R.id.***textView2F2***);  
 text.setText(**""**);  
 *temp1*+=1;  
 text.setText(**"Fragment 2 is incremented by "**+*temp1*);  
  
 fragmentTransaction.commit();  
  
 }  
  
 **public void** buttonMinusF1Click(View view) {  
 FragmentTransaction fragmentTransaction = *fragmentManager*.beginTransaction();  
 FragmentTwo fragmentTwo = **new** FragmentTwo();  
 fragmentTransaction.add(R.id.***fragment\_two\_container***,fragmentTwo,**null**);  
  
  
 TextView text = findViewById(R.id.***textView2F2***);  
 text.setText(**""**);  
 *temp1*-=1;  
 text.setText(**"Fragment 2 is decremented by "**+*temp1*);  
  
 fragmentTransaction.commit();  
 }  
  
 **public void** buttonMinusF2Click(View view) {  
 FragmentTransaction fragmentTransaction = *fragmentManager*.beginTransaction();  
 FragmentOne fragmentOne = **new** FragmentOne();  
 fragmentTransaction.add(R.id.***fragment\_one\_container***,fragmentOne,**null**);  
  
  
 TextView text = findViewById(R.id.***textView2F1***);  
 text.setText(**""**);  
 *temp2*-=1;  
 text.setText(**"Fragment 1 is decremented by "**+*temp2*);  
  
 fragmentTransaction.commit();  
 }  
  
 **public void** buttonPlusF2Click(View view) {  
 FragmentTransaction fragmentTransaction = *fragmentManager*.beginTransaction();  
 FragmentOne fragmentOne = **new** FragmentOne();  
 fragmentTransaction.add(R.id.***fragment\_one\_container***,fragmentOne,**null**);  
  
  
 TextView text = findViewById(R.id.***textView2F1***);  
 text.setText(**""**);  
 *temp2*+=1;  
 text.setText(**"Fragment 1 is incremented by "**+*temp2*);  
  
 fragmentTransaction.commit();  
 }  
}

FragmentOne.java

**import** android.os.Bundle;  
**import** android.support.v4.app.Fragment;  
**import** android.view.LayoutInflater;  
**import** android.view.View;  
**import** android.view.ViewGroup;  
  
**public class** FragmentOne **extends** Fragment {  
  
 **public** FragmentOne(){  
  
 }  
  
 **public** View onCreateView(LayoutInflater inflater, ViewGroup container,  
 Bundle savedInstanceState) {  
 *// Inflate the layout for this fragment* **return** inflater.inflate(R.layout.***fragment\_one***, container, **false**);  
  
  
 }  
}

FragmentTwo.java

**import** android.os.Bundle;  
**import** android.support.v4.app.Fragment;  
**import** android.view.LayoutInflater;  
**import** android.view.View;  
**import** android.view.ViewGroup;  
  
**public class** FragmentTwo **extends** Fragment {  
 **public** FragmentTwo(){  
  
 }  
  
 **public** View onCreateView(LayoutInflater inflater, ViewGroup container,  
 Bundle savedInstanceState) {  
 *// Inflate the layout for this fragment* **return** inflater.inflate(R.layout.***fragment\_two***, container, **false**);  
 }  
}