1 act 2 far

Acti.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"  
 tools:context=".MainActivity"  
 android:orientation="vertical">  
  
 <FrameLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/container\_a"  
 android:layout\_weight="1"/>  
  
 <FrameLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/container\_b"  
 android:layout\_weight="1"/>  
  
  
</LinearLayout>

Main.j:

package com.example.practice\_prac5;  
  
import androidx.appcompat.app.AppCompatActivity;  
import androidx.fragment.app.FragmentManager;  
import androidx.fragment.app.FragmentTransaction;  
  
import android.os.Bundle;  
  
public class MainActivity extends AppCompatActivity implements fragment\_a.fragmentalistener,fragment\_b.fragmentblistener  
{  
 private fragment\_a fragmenta;  
 private fragment\_b fragmentb;  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
 fragmenta = new fragment\_a();  
 fragmentb=new fragment\_b();  
 FragmentManager fm = getSupportFragmentManager();  
 FragmentTransaction ft = fm.beginTransaction();  
 ft.replace(R.id.*container\_a*,fragmenta);  
 ft.replace(R.id.*container\_b*,fragmentb);  
 ft.commit();  
 }  
  
 @Override  
 public void onInputASent(CharSequence input) {  
 fragmentb.updateEditText(input);  
  
 }  
  
 @Override  
 public void onInputBSent(CharSequence input) {  
 fragmenta.updateEditText(input);  
 }  
}

frag1.xml:

*<?*xml version="1.0" encoding="utf-8"*?>*<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:tools="http://schemas.android.com/tools"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:orientation="vertical"  
 tools:context=".fragment\_a"  
 android:layout\_gravity="center\_horizontal"  
 >  
  
 <TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="This is fragment 1"  
 android:id="@+id/tvfa"  
 />  
  
 <EditText  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/edtxfa"  
 android:hint="Enter a number (we will help you find the solution of it in the quadratic eq: x^2 + 5x+25)"  
 android:layout\_below="@id/tvfa"  
 />  
  
 <Button  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/submit1"  
 android:text="submit"  
 android:layout\_below="@id/edtxfa"/>  
  
</LinearLayout>

Frag1.j:

package com.example.practice\_prac5;  
  
import android.content.Context;  
import android.os.Bundle;  
  
import androidx.annotation.NonNull;  
import androidx.fragment.app.Fragment;  
  
import android.view.LayoutInflater;  
import android.view.View;  
import android.view.ViewGroup;  
import android.widget.Button;  
import android.widget.EditText;  
  
public class fragment\_a extends Fragment {  
  
 private fragmentalistener listener;  
 private EditText edt;  
 private Button bt1;  
 public fragment\_a() {  
 *// Required empty public constructor* }  
  
 public interface fragmentalistener{  
 void onInputASent(CharSequence input);  
 }  
  
 @Override  
 public View onCreateView(LayoutInflater inflater, ViewGroup container,  
 Bundle savedInstanceState) {  
 *// Inflate the layout for this fragment* View v = inflater.inflate(R.layout.*fragment\_a*, container, false);  
 edt = v.findViewById(R.id.*edtxfa*);  
 bt1 =v.findViewById(R.id.*submit1*);  
 bt1.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 String input = String.*valueOf*(edt.getText());  
 int s = 0;  
 int a = Integer.*parseInt*(input);  
 s = a\*a + 5\*a+25;  
 String ans = Integer.*toString*(s);  
 String O = Integer.*toString*(s);  
 listener.onInputASent(O);  
 }  
 });  
 return v ;  
 }  
 public void updateEditText(CharSequence sol){  
 edt.setText(sol);  
 }  
  
 @Override  
 public void onAttach( Context context) {  
 super.onAttach(context);  
 if(context instanceof fragmentalistener){  
 listener =(fragmentalistener) context;  
 }  
 else{  
 throw new RuntimeException(context.toString()+"must implement Fragmentalistener");  
  
 }  
 }  
  
 @Override  
 public void onDetach() {  
 super.onDetach();  
 listener=null;  
 }  
}

frag2.xml:

*<?*xml version="1.0" encoding="utf-8"*?>*<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:tools="http://schemas.android.com/tools"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:orientation="vertical"  
 tools:context=".fragment\_b">  
  
 *<!-- TODO: Update blank fragment layout -->* <TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="This is fragment 2"  
 android:id="@+id/tvfb"  
 />  
  
 <EditText  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/edtxfb"  
 android:hint="Enter a number (we will help you find the solution of it in the quadratic eq: x^2 +6x+36)"  
 android:layout\_below="@id/tvfb"  
 />  
  
 <Button  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/submit2"  
 android:text="submit"/>  
  
</LinearLayout>

Frag2.j:

package com.example.practice\_prac5;  
  
import android.content.Context;  
import android.os.Bundle;  
  
import androidx.annotation.NonNull;  
import androidx.fragment.app.Fragment;  
  
import android.view.LayoutInflater;  
import android.view.View;  
import android.view.ViewGroup;  
import android.widget.Button;  
import android.widget.EditText;  
  
public class fragment\_b extends Fragment {  
 private fragmentblistener listener;  
 private EditText edt;  
 private Button bt1;  
  
 public interface fragmentblistener{  
 void onInputBSent(CharSequence input);  
 }  
  
 public fragment\_b() {  
 *// Required empty public constructor* }  
  
 @Override  
 public View onCreateView(LayoutInflater inflater, ViewGroup container,  
 Bundle savedInstanceState) {  
 *// Inflate the layout for this fragment* View v= inflater.inflate(R.layout.*fragment\_b*, container, false);  
 edt = v.findViewById(R.id.*edtxfb*);  
 bt1= v.findViewById(R.id.*submit2*);  
 bt1.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 String input= String.*valueOf*(edt.getText());  
 int ans = 0;  
 int a = Integer.*parseInt*(input);  
 ans = a\*a + 6\*a+36;  
 String O = Integer.*toString*(ans);  
 listener.onInputBSent(O);  
 }  
 });  
 return v;  
 }  
 public void updateEditText(CharSequence sol){  
 edt.setText(sol);  
 }  
  
 @Override  
 public void onAttach(@NonNull Context context) {  
 super.onAttach(context);  
 if(context instanceof fragmentblistener){  
 listener =(fragmentblistener) context;  
 }  
 else{  
 throw new RuntimeException(context.toString()+"nust implement FragmentBListener");  
 }  
 }  
  
 @Override  
 public void onDetach() {  
 super.onDetach();  
 listener=null;  
 }  
}