## 📁 Contents of ./

📝 Java File: ./java/Fragment1.java

package com.example.tp3\_ex2;  
  
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;  
import android.widget.Toast;  
  
public class Fragment1 extends Fragment {  
  
 EditText editText;  
 Button showButton;  
 OnNameSendListener listener;  
  
 public interface OnNameSendListener {  
 void onNameSend(String name);  
 }  
  
 @Override  
 public void onAttach(@NonNull Context context) {  
 super.onAttach(context);  
 if (context instanceof OnNameSendListener) {  
 listener = (OnNameSendListener) context;  
 } else {  
 throw new RuntimeException(context.toString() + " must implement OnNameSendListener");  
 }  
 }  
  
 @Override  
 public View onCreateView(LayoutInflater inflater, ViewGroup container,  
 Bundle savedInstanceState) {  
 View view = inflater.inflate(R.layout.fragment1, container, false);  
  
 editText = view.findViewById(R.id.editTextName);  
 showButton = view.findViewById(R.id.buttonShow);  
  
 showButton.setOnClickListener(v -> {  
 String name = editText.getText().toString().trim();  
  
 if(name.isEmpty()){  
 Toast.makeText(getActivity(),"Please enter a name",Toast.LENGTH\_SHORT).show();  
 return;  
 }  
   
 listener.onNameSend(name);  
 });  
  
 return view;  
 }  
}

📝 Java File: ./java/MainActivity.java

package com.example.tp3\_ex2;  
  
import androidx.appcompat.app.AppCompatActivity;  
import android.os.Bundle;  
import android.widget.TextView;  
  
public class MainActivity extends AppCompatActivity implements Fragment1.OnNameSendListener {  
  
 TextView textView;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.activity\_main);  
  
 textView = findViewById(R.id.textView);  
 }  
  
 // This is triggered from Fragment1  
 @Override  
 public void onNameSend(String name) {  
 textView.setText("Your name is " + name);  
 }  
}

📋 XML File: ./xml/activity\_main.xml

<?xml version="1.0" encoding="utf-8"?>  
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android" android:layout\_width="match\_parent" android:layout\_height="match\_parent" android:orientation="vertical" android:padding="20dp">  
  
 <TextView android:id="@+id/textView" android:text="Enter your name" android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:textSize="20sp" android:layout\_marginBottom="20dp"/>  
  
 <fragment android:id="@+id/fragment1" android:name="com.example.tp3\_ex2.Fragment1" android:layout\_width="match\_parent" android:layout\_height="wrap\_content" />  
</LinearLayout>

📋 XML File: ./xml/fragment1.xml

<?xml version="1.0" encoding="utf-8"?>  
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android" android:layout\_width="match\_parent" android:layout\_height="wrap\_content" android:orientation="vertical" android:padding="16dp">  
  
 <EditText android:id="@+id/editTextName" android:layout\_width="match\_parent" android:layout\_height="wrap\_content" android:hint="Enter name" />  
  
 <Button android:id="@+id/buttonShow" android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:text="Show" android:layout\_marginTop="10dp"/>  
</LinearLayout>