**Topic: Fragment to Fragment communication.**

**Steps to add fragments:**

* App-> new -> fragment-> blank fragment
* Uncheck factory methods -> interface callback->language-java->target-main.
* Create one more fragment using same steps.

**// Activity\_main.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"

android:orientation="vertical"

tools:context=".MainActivity">

<FrameLayout

android:id="@+id/fragmentcontainer"

android:layout\_width="370dp"

android:layout\_height="490dp"

tools:layout\_editor\_absoluteX="8dp"

tools:layout\_editor\_absoluteY="8dp" />

</LinearLayout>

**// Fragment1.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=".Fragmen1">

<Button

android:id="@+id/btnsend"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Send Message" />

android:id="@+id/txtmsg"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:ems="10"

android:inputType="textPersonName"

android hint "enter your message here" />

</LinearLayout>

**// Fragment2.xml**

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

<FrameLayout

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"

tools.context=".Fragment2">

<TextView

android:id="@+id/txtmsg1"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:hint="This is your message" />

</FrameLayout>

**// Fragment1.java**

package com.example.ftof40;

import android.app.Activity;

import android.content.Context;

import android.os.Bundle;

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 Fragmen1 extends Fragment

{

Button btn;

EditText txt;

on MessageSendListener messageSendListener;

public interface on MessageSendListener{

public void on MessageSend(String msg);

}

public Fragmen1() {

// 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\_fragmen1,container, false);

btn=v.findViewById(R.id.btnsend);

txt=v.findViewById(R.id.txtmsg);

btn.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

String msg=txt.getText().toString();

messageSendListener.onMessageSend(msg);

}

});

return v;

}

@Override

public void onAttach (Context context) {

super.onAttach(context);

Activity a=(Activity) context;

try

{

messageSendListener=(on MessageSendListener) a;

}

catch(ClassCastException e)

{

throw new ClassCastException(a.toString()+"must implement on message send listener");

}

}

@Override

public void onResume() {

super.onResume();

txt.setText("");

}

}

**// Fragment2.java**

package com.example.ftof40;

import android.os.Bundle;

import androidx.fragment.app.Fragment;

import android.view.LayoutInflater;

import android.view.View;

import android.view.ViewGroup;

import android.widget.TextView;

public class Fragment2 extends Fragment {

TextView txt1;

public Fragment2() {

**// 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 fragment2,container,false);

txt1=v.findViewById(R.id.txtmsg1);

Bundle b1=getArguments();

String msg1=b1.getString("message");

txt1.setText((msg1));

return v;

}

}

**// MainAcitivity.java**

package com.example.ftof40;

import androidx.appcompat.app.AppCompatActivity;

import androidx.fragment.app.FragmentTransaction;

import android.os.Bundle;

public class MainActivity extends AppCompatActivity implements

Fragmen1.onMessageSendListener

{

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

if(findViewById(R.id.fragmentcontainer)!=null){

{

if(savedInstanceState!=null)

{

return;

}

Fragmen1 f1=new Fragmen1();

getSupportFragmentManager().beginTransaction().add(R.id.fragmentcontainer,f1,null).commit();

}

}

public void on Message Send(String message){

Fragment2 f2=new Fragment2();

Bundle b=new Bundle();

b.putString("message", message);

f2.setArguments(b);

FragmentTransaction

ft=getSupportFragmentManager().beginTransaction().replace(R.id.fragmentcontainer,f2);

ft.addToBackStack(null);

ft.commit();}