**Practical no: 11**

**Activity to Fragment Communication**

**// Activity main.xml file**

<?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">

<Button

android:id="@+id/btnred"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:onClick="changefragment"

android:text="Call Red Fragment"/>

<Button

android:id="@+id/btngreen"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:onClick="changefragment"

android:text="Call Green Fragment"/>

<fragment

android:name="com.example.atof21.RedFragment"

android:id="@+id/fragment1"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"/>

</LinearLayout>

**// Fragment red.xml file**

<?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"

android:background="@color/colorPrimaryDark"

tools:context=".RedFragment">

**<!-- TODO: Update blank fragment layout -->**

<TextView

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:text="This is Red Fragment" />

</FrameLayout>

**// Fragment green.xml file**

<?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"

android:background="@color/colorPrimary"

tools:context="Green Fragment">

**<!-- TODO: Update blank fragment layout -->**

<TextView

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:textSize="30dp"

android:text="This is Green Fragment" />

</FrameLayout>

**// MainActivitty.java file**

package com.example.atof21;

import androidx.appcompat.app.AppCompatActivity;

import androidx.fragment.app.Fragment;

import androidx.fragment.app.FragmentManager;

import androidx.fragment.app.FragmentTransaction;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

public class MainActivity extends AppCompatActivity {

Button btnred;

Button btngreen;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

}

public void changefragment(View view) {

Fragment fg;

if(view==findViewById(R.id.btnred)){

fg=new RedFragment();

FragmentManager fm = getSupportFragmentManager():

FragmentTransaction ft = fm.beginTransaction();

ft.replace(R.id.fragment 1,fg);

ft.commit();

}

if(view==findViewById(R.id.btngreen)){

fg=new GreenFragment();

FragmentManager fm = getSupportFragmentManager();

FragmentTransaction ft = fm.beginTransaction();

ft.replace(R.id.fragment 1,fg);

ft.commit();

}

}

}