**Program no: 18**

**Aim:** Develop application using Fragments

# XML Code:

Activity\_main.xml

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

<LinearLayout xmlns:android="[http://schemas.android.com/apk/res/android"](http://schemas.android.com/apk/res/android) xmlns:app="[http://schemas.android.com/apk/res-auto"](http://schemas.android.com/apk/res-auto) xmlns:tools="[http://schemas.android.com/tools"](http://schemas.android.com/tools) android:layout\_width="match\_parent" android:layout\_height="match\_parent"

android:orientation="vertical" tools:context=".MainActivity">

<RelativeLayout android:layout\_width="match\_parent" android:layout\_height="0dp" android:layout\_weight="1">

<Button

android:id="@+id/b1" android:layout\_width="160dp" android:layout\_height="50dp" android:layout\_alignParentBottom="true" android:layout\_marginStart="30dp" android:layout\_marginBottom="30dp" android:backgroundTint="#FF0000" android:text="Fragment1" />

<Button

android:id="@+id/b2" android:layout\_width="160dp" android:layout\_height="50dp" android:layout\_alignParentRight="true" android:layout\_alignParentBottom="true" android:layout\_marginStart="30dp" android:layout\_marginBottom="30dp"

android:backgroundTint="#2B02E8" android:text="Fragment2" />

</RelativeLayout>

<FrameLayout android:id="@+id/frameLayout"

android:layout\_width="match\_parent" android:layout\_height="0dp" android:layout\_weight="4" android:background="@color/teal\_700"/>

</LinearLayout> Activity\_fragment1.xml

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

<RelativeLayout xmlns:android="[http://schemas.android.com/apk/res/android"](http://schemas.android.com/apk/res/android) xmlns:tools="[http://schemas.android.com/tools"](http://schemas.android.com/tools) android:layout\_width="match\_parent" android:layout\_height="match\_parent"

android:background="#58CC7F" tools:context=".Fragment1">

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

<TextView android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:layout\_centerInParent="true" android:background="#884A9E" android:text="Fragment1" android:textSize="50dp" />

</RelativeLayout> Activity\_fragment2.xml

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

<RelativeLayout xmlns:android="[http://schemas.android.com/apk/res/android"](http://schemas.android.com/apk/res/android) xmlns:tools="[http://schemas.android.com/tools"](http://schemas.android.com/tools)

android:layout\_width="match\_parent" android:layout\_height="match\_parent" android:background="#55AF59" tools:context=".Fragment2">

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

<TextView android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:layout\_centerInParent="true" android:background="#C155E8" android:text="Fragment2" android:textSize="50dp" />

</RelativeLayout> **Java Code:** MainActivity.java

package com.example.fragments;

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 b1,b2;

@Override

protected void onCreate(Bundle savedInstanceState) { super.onCreate(savedInstanceState); setContentView(R.layout.activity\_main);

b1=findViewById(R.id.b1); b2=findViewById(R.id.b2);

b1.setOnClickListener(new View.OnClickListener() { @Override

public void onClick(View v) { replaceFragment(new Fragment1());

}

});

b2.setOnClickListener(new View.OnClickListener() { @Override

public void onClick(View v) { replaceFragment(new Fragment2());

}

});

}

private void replaceFragment(Fragment fragment) {

FragmentManager fragmentManager=getSupportFragmentManager(); FragmentTransaction fragmentTransaction=fragmentManager.beginTransaction(); fragmentTransaction.replace(R.id.frameLayout,fragment); fragmentTransaction.commit();

}

}

Fragment1.java

package com.example.fragments; import android.os.Bundle;

import androidx.fragment.app.Fragment; import android.view.LayoutInflater; import android.view.View;

import android.view.ViewGroup;

public class Fragment1 extends Fragment {

@Override

public View onCreateView(LayoutInflater inflater, ViewGroup container, Bundle savedInstanceState) {

// Inflate the layout for this fragment

return inflater.inflate(R.layout.activity\_fragment1, container, false);

}

}

Fragment2.java

package com.example.fragments; import android.os.Bundle;

import androidx.fragment.app.Fragment;

import android.view.LayoutInflater; import android.view.View;

import android.view.ViewGroup;

public class Fragment2 extends Fragment { @Override

public View onCreateView(LayoutInflater inflater, ViewGroup container, Bundle savedInstanceState) {

// Inflate the layout for this fragment

return inflater.inflate(R.layout.activity\_fragment2, container, false);

}

}

# Output:

