**Fragments**

**activity\_main:**

<?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">

<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="#2196F3"

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="#FFC107"

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/purple\_200"/>

</LinearLayout>

**Fragment1.xml:**

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

<RelativeLayout 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/teal\_200"

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="#FFEB3B"

android:text="Fragment1"

android:textSize="30dp" />

</RelativeLayout>

**Fragment2.xml:**

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

<RelativeLayout 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="#FFEB3B"

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="#FAA3C1"

android:text="Fragment2"

android:textSize="30dp" />

</RelativeLayout>

**Java Code:**

package com.example.Co4\_q4;

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();

}

}

package com.example.fragment;

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.fragment\_1, container, false);

}

}

package com.example.fragment;

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.fragment\_2, container, false);

}

}

**Output:**

A screenshot of a phone

Description automatically generated with low confidence A screenshot of a cell phone

Description automatically generated with medium confidence