

Program

Aim: Program to develop an application using fragments

XML Code:

#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/material_on_surface_stroke"
    tools:context=".fragment1">
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_centerInParent="true"
        android:textSize="30dp"
        android:text="fragment 1" />
</RelativeLayout>
```

Java Code:

```
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) {
```

```
    return inflater.inflate(R.layout.fragment_fragment1, container, false);
```

```
}
```

```
}
```

```
#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="@color/teal_200"
```

```
tools:context=".fragment2">
```

```
<TextView
```

```
    android:layout_width="wrap_content"
```

```
    android:layout_height="wrap_content"
```

```
    android:layout_centerInParent="true"
```

```
    android:textSize="30dp"
```

```
    android:text="fragment 2" />
```

```
</RelativeLayout>
```

```
#fragment.java
```

```
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_fragment2, container, false);

        }

    }

```

#activity_main.java

```

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

<LinearLayout

xmlns:android="http://schemas.android.com/apk/res/android"

xmlns:tools="http://schemas.android.com/tools"

xmlns:app="http://schemas.android.com/apk/res-auto"

android:layout_width="match_parent"

android:layout_height="match_parent"

android:orientation="vertical"

tools:context=".MainActivity">

    <FrameLayout

        android:layout_width="match_parent"

        android:layout_height="0dp"

        android:layout_weight="4"

        android:background="@color/yellow"

        android:id="@+id/framelayout"/>

        <RelativeLayout

            android:layout_width="match_parent"

            android:layout_height="0dp"

            android:layout_weight="1">

                <Button

                    android:layout_width="160dp"

```

```
        android:layout_height="50dp"
        android:id="@+id/fragbtn1"
        android:text="fragment1"
        android:layout_alignParentBottom="true"
        android:layout_marginStart="30dp"
        android:layout_marginEnd="30dp"/>
    <Button
        android:layout_width="160dp"
        android:layout_height="50dp"
        android:id="@+id/fragbtn2"
        android:text="fragment1"
        android:layout_alignParentBottom="true"
        android:layout_alignParentRight="true"
        android:layout_marginRight="30dp"
        android:layout_marginEnd="30dp"/>
</RelativeLayout>
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text=""
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintLeft_toLeftOf="parent"
    app:layout_constraintRight_toRightOf="parent"
    app:layout_constraintTop_toTopOf="parent" />
</LinearLayout>

#MainActivity.java

package com.example.fragmen;

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 {

    @Override

    protected void onCreate(Bundle
savedInstanceState)super.onCreate(savedInstanceState);
setContentView(R.layout.activity_main);


        Button b1=findViewById(R.id.fragbtn1);

        Button b2=findViewById(R.id.fragbtn2);


        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.frame_layout,fragment);
    fragmentTransaction.commit();

}

```

Output:

