

# **PROGRAM 4**

**AIM :** Develop application using Fragments

## **PROGRAM CODE :**

### **MainActivity.java**

```
package com.example.fragmentsq4;

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.Toast;


public class MainActivity extends AppCompatActivity {

    @Override

    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity_main);

    }
```

```
public void fragement1Start(View view){  
    replaceFragement(new Fragment_1());  
}
```

```
public void fragement2Start(View view){  
    replaceFragement(new Fragment_2());  
}
```

```
public void replaceFragement(Fragment pragment){  
    FragmentManager fm = getSupportFragmentManager();  
    FragmentTransaction ft = fm.beginTransaction();  
    ft.replace(R.id.fra,pragment);  
    ft.commit();  
}
```

```
}
```

### **Activity\_main.xml**

```
<?xml version="1.0" encoding="utf-8"?>  
  
<androidx.constraintlayout.widget.ConstraintLayout  
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"
```

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

```
<Button
```

```
    android:id="@+id/f2"
```

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

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

```
    android:layout_marginStart="32dp"
```

```
    android:layout_marginTop="100dp"
```

```
    android:onClick="fragment2Start"
```

```
    android:text="Fragment 2"
```

```
    app:layout_constraintEnd_toEndOf="parent"
```

```
    app:layout_constraintHorizontal_bias="0.5"
```

```
    app:layout_constraintStart_toEndOf="@+id/f1"
```

```
    app:layout_constraintTop_toTopOf="parent" />
```

```
<Button
```

```
    android:id="@+id/f1"
```

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

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

```
    android:layout_marginTop="100dp"
```

```
    android:onClick="fragment1Start"
```

```
    android:text="Fragment 1"
```

```
    app:layout_constraintEnd_toStartOf="@+id/f2"
```

```
    app:layout_constraintHorizontal_bias="0.5"
```

```
app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent" />
```

```
<FrameLayout
    android:id="@+id/fra"
    android:layout_width="409dp"
    android:layout_height="581dp"
    tools:layout_editor_absoluteX="2dp"
    tools:layout_editor_absoluteY="148dp">

</FrameLayout>
```

```
</androidx.constraintlayout.widget.ConstraintLayout>
```

### **Fragment\_1.java**

```
package com.example.fragmentsq4;
```

```
import android.os.Bundle;
```

```
import androidx.fragment.app.Fragment;
```

```
import android.view.LayoutInflater;
```

```
import android.view.View;
```

```
import android.view.ViewGroup;
```

```
public class Fragment_1 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);  
  
    }  
}
```

### **Fragment\_2.java**

```
package com.example.fragmentsq4;  
  
import android.os.Bundle;  
  
import androidx.fragment.app.Fragment;  
  
import android.view.LayoutInflater;  
import android.view.View;  
import android.view.ViewGroup;  
  
public class Fragment_2 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);

}
}

```

### **Fragment\_1.xml**

```

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

<androidx.constraintlayout.widget.ConstraintLayout
    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:id="@+id/frameLayout2"

    android:layout_width="match_parent"

    android:layout_height="match_parent"

    android:background="#F68DB3"

    tools:context=".Fragment_1">

    <TextView

        android:id="@+id/textView2"

        android:layout_width="154dp"

        android:layout_height="46dp"

        android:text="Fragment 1"

```

```

        android:textAlignment="center"

        android:textColor="#DA1C16"

        android:textSize="24sp"

        android:textStyle="bold|italic"

        app:layout_constraintBottom_toBottomOf="parent"

        app:layout_constraintEnd_toEndOf="parent"

        app:layout_constraintHorizontal_bias="0.498"

        app:layout_constraintStart_toStartOf="parent"

        app:layout_constraintTop_toTopOf="parent"

        app:layout_constraintVertical_bias="0.499" />
</androidx.constraintlayout.widget.ConstraintLayout>

```

## Fragment\_2.xml

```

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

<androidx.constraintlayout.widget.ConstraintLayout
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:id="@+id/frameLayout"

    android:layout_width="match_parent"

    android:layout_height="match_parent"

    android:background="#7DE40F"

    tools:context=".Fragment_2">

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

```

<TextView

android:id="@+id/textView"

android:layout\_width="131dp"

android:layout\_height="61dp"

android:text="Fragment 2"

android:textAlignment="center"

android:textColor="#121111"

android:textSize="24sp"

android:textStyle="bold"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

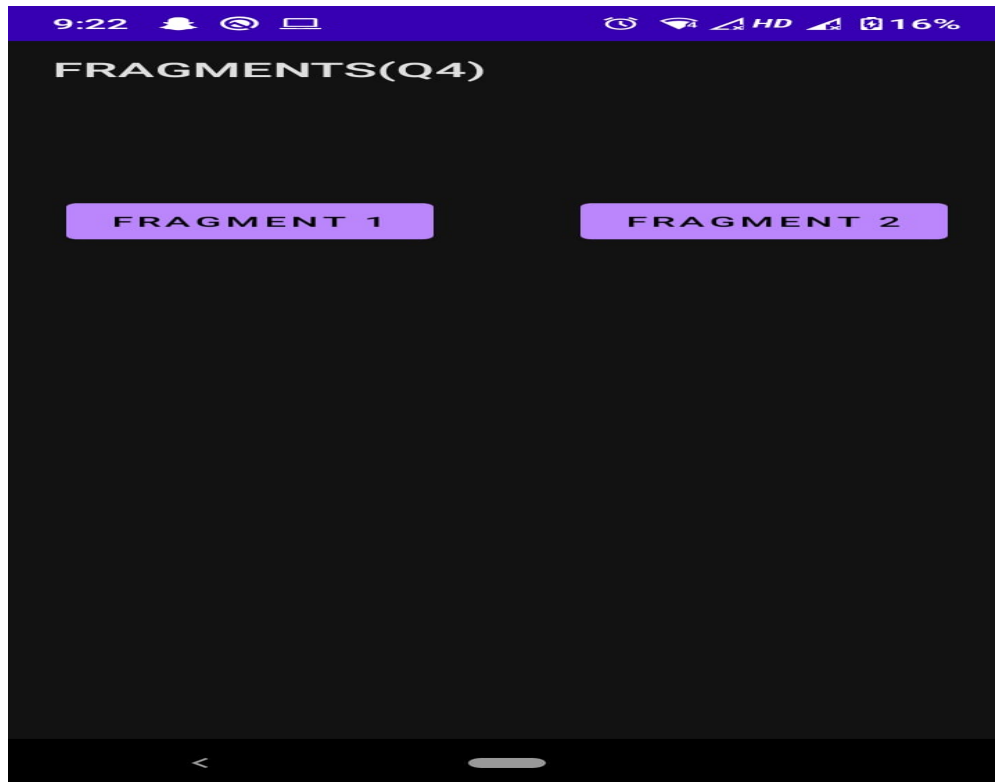
app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent" />

</androidx.constraintlayout.widget.ConstraintLayout>



OUTPUT :





**RESULT :** Program has been succesfully executed and output is obtained.