Create a program to depict fragment.

<u>Code:</u>

activity_main.xml

```xml
<?xml version ="1.0" encoding ="utf-8"?>
<LinearLayoutxmlns: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"
  android:orientation="vertical">
  <Button
    android:id="@+id/fragment1"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentTop="true"
    android:layout_centerHorizontal="true"
    android:layout_marginTop="27dp"
    android:text="fragment1"/>
  <Button
    android:id="@+id/fragment2"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentTop="true"
    android:layout_centerHorizontal="true"
    android:layout_marginTop="27dp"
    android:text="fragment2"/>
  <LinearLayout
    android:id="@+id/layout"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:orientation="vertical">
  </LinearLayout></LinearLayout>
```

```java
package com.example.myapplication;
import android.os.Build;
import android.os.Bundle;
import android.support.annotation.RequiresApi;
import android.support.v4.app.FragmentManager;
import android.support.v4.app.FragmentTransaction;
import android.support.v7.app.AppCompatActivity;
import android.view.View;
publicclassMainActivityextendsAppCompatActivity{
    @RequiresApi(api =Build.VERSION_CODES.LOLLIPOP)
    @Override
    protectedvoid onCreate(Bundle savedInstanceState){
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        final android.support.v4.app.Fragment first =newFirstFragment();
        final android.support.v4.app.Fragment second =newSecondFragment();

findViewById(R.id.fragment1).setOnClickListener(newView.OnClickListener()
{
        @Override
        publicvoid onClick(View v){
            android.support.v4.app.FragmentManager fm =
getSupportFragmentManager();
            android.support.v4.app.FragmentTransaction fragmentTransaction =
fm.beginTransaction();
            fragmentTransaction.replace(R.id.layout, first);
            fragmentTransaction.commit();
        }
    });

findViewById(R.id.fragment2).setOnClickListener(newView.OnClickListener()
{
        @Override
        publicvoid onClick(View v){
            FragmentManager fm = getSupportFragmentManager();
            FragmentTransaction fragmentTransaction = fm.beginTransaction();
            fragmentTransaction.replace(R.id.layout, second);
            fragmentTransaction.commit();
        }
    });
}}
```

FirstFragment.java

```java
package com.example.myapplication;
import android.annotation.SuppressLint;
import android.os.Bundle;
import android.support.annotation.NonNull;
import android.support.annotation.Nullable;
import android.support.v4.app.Fragment;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import android.widget.TextView;
@SuppressLint("ValidFragment")publicclassFirstFragmentextendsFragment{
   TextView textView;
   @Nullable
   @Override
   publicView onCreateView(@NonNullLayoutInflater
inflater,@NullableViewGroup container,@NullableBundle
savedInstanceState){
      View view = inflater.inflate(R.layout.fragment, container,false);
      textView = view.findViewById(R.id.text);
      textView.setText("first");
      return view;
   }}
```

Step 5 − Add the following code to src / SecondFragment.java

```java
package com.example.myapplication;
import android.annotation.SuppressLint;
import android.os.Bundle;
import android.support.annotation.NonNull;
import android.support.annotation.Nullable;
import android.support.v4.app.Fragment;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import android.widget.TextView;
publicclassSecondFragmentextendsFragment{
   TextView textView;
   @Nullable
   @Override
```

```java
    publicView onCreateView(@NonNullLayoutInflater
inflater,@NullableViewGroup container,@NullableBundle
savedInstanceState){
    View view = inflater.inflate(R.layout.fragment, container,false);
    textView = view.findViewById(R.id.text);
    textView.setText("Second");
    return view;
    }}
```

fragment.xml.

```xml
<?xml version ="1.0" encoding ="utf-8"?><LinearLayout
  xmlns:android="http://schemas.android.com/apk/res/android"
  android:layout_width="match_parent"
  android:gravity="center"
  android:layout_height="match_parent">
  <TextView
    android:id="@+id/text"
    android:textSize="30sp"
    android:layout_width="match_parent"
    android:layout_height="match_parent"/></LinearLayout>
```