Activity\_main.xml

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

<**LinearLayout 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:orientation="vertical"**

**android:paddingBottom="@dimen/activity\_vertical\_margin"**

**android:paddingLeft="@dimen/activity\_horizontal\_margin"**

**android:paddingRight="@dimen/activity\_horizontal\_margin"**

**android:paddingTop="@dimen/activity\_vertical\_margin"**

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

*<!-- display two Button's and a FrameLayout to replace the Fragment's -->*

<**Button**

**android:id="@+id/firstFragment"**

**android:layout\_width="match\_parent"**

**android:layout\_height="wrap\_content"**

**android:background="@color/button\_background\_color"**

**android:text="First Fragment"**

**android:textColor="@color/white"**

**android:textSize="20sp"** />

<**Button**

**android:id="@+id/secondFragment"**

**android:layout\_width="match\_parent"**

**android:layout\_height="wrap\_content"**

**android:layout\_marginTop="10dp"**

**android:background="@color/button\_background\_color"**

**android:text="Second Fragment"**

**android:textColor="@color/white"**

**android:textSize="20sp"** />

*<!--*

*Read these links :*

*https://stackoverflow.com/questions/17495199/why-is-a-framelayout-used-for-fragments*

*https://developer.android.com/reference/android/widget/FrameLayout*

*FrameLayout is designed to block out an area on the screen to display a single item.*

*Main purpose of frame layout is to block the area required to fit the largest child view.*

*If you use a Frame Layout as Fragment Container you can ensure that you always have the space available*

*to accommodate the largest fragment layout.-->*

<**FrameLayout**

**android:id="@+id/frameLayout"**

**android:layout\_width="match\_parent"**

**android:layout\_height="match\_parent"**

**android:layout\_marginTop="10dp"**

**android:background="@color/colorAccent"**/>

</**LinearLayout**>

MainActivity.java

**package** com.example.jevitha.a18\_fragments\_dynamicloading;

**import** android.app.Fragment;

**import** android.app.FragmentManager;

**import** android.app.FragmentTransaction;

**import** android.support.v7.app.AppCompatActivity;

**import** android.os.Bundle;

**import** android.view.View;

**import** android.widget.Button;

**public class** MainActivity **extends** AppCompatActivity {

Button **firstFragment**, **secondFragment**;

@Override

**protected void** onCreate(Bundle savedInstanceState) {

**super**.onCreate(savedInstanceState);

setContentView(R.layout.***activity\_main\_fragment***);

**firstFragment** = (Button) findViewById(R.id.***firstFragment***);

**secondFragment** = (Button) findViewById(R.id.***secondFragment***);

*// perform setOnClickListener event on First Button*

**firstFragment**.setOnClickListener(**new** View.OnClickListener() {

@Override

**public void** onClick(View v) {

*// load First Fragment*

loadFragment(**new** FirstFragment());

}

});

*// perform setOnClickListener event on Second Button*

**secondFragment**.setOnClickListener(**new** View.OnClickListener() {

@Override

**public void** onClick(View v) {

*// load Second Fragment*

loadFragment(**new** SecondFragment());

}

});

}

*/\**

*Details regarding Fragment Classes:*

*android.app.Fragment : The base class for all fragment definitions*

*android.app.FragmentManager : The class for interacting with fragment objects inside an activity*

*android.app.FragmentTransaction : The class for performing an atomic set of fragment operations*

*When using a compatibility package library provided by Google, the following classes are used for implementation.*

*android.support.v4.app.FragmentActivity : The base class for all activities using compatibility-based fragment*

*(and loader) features*

*android.support.v4.app.Fragment*

*android.support.v4.app.FragmentManager*

*android.support.v4.app.FragmentTransaction*

*\*/*

**private void** loadFragment(Fragment fragment) {

*// create a FragmentManager*

FragmentManager fm = getFragmentManager();

*// android.support.v4.app.FragmentManager fm=getSupportFragmentManager();*

*// create a FragmentTransaction to begin the transaction and replace the Fragment*

FragmentTransaction fragmentTransaction =

fm.beginTransaction();

*// replace the FrameLayout with new Fragment*

fragmentTransaction.replace(R.id.***frameLayout***, fragment);

*//fragmentTransaction.add(R.id.firstFragment,fragment);*

fragmentTransaction.commit(); *// save the changes*

}

}

app→ right click → New → Fragment → Fragment(Blank)

Fragment\_first.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/colorPrimary"**

**tools:context=".FirstFragment"**>

<**TextView**

**android:layout\_width="wrap\_content"**

**android:layout\_height="wrap\_content"**

**android:layout\_centerHorizontal="true"**

**android:layout\_marginTop="100dp"**

**android:text="This is First Fragment"**

**android:textColor="@color/black"**

**android:textSize="25sp"** />

<**Button**

**android:id="@+id/firstButton"**

**android:layout\_width="fill\_parent"**

**android:layout\_height="wrap\_content"**

**android:layout\_centerInParent="true"**

**android:layout\_marginLeft="20dp"**

**android:layout\_marginRight="20dp"**

**android:background="@color/green"**

**android:text="First Fragment"**

**android:textColor="@color/white"**

**android:textSize="20sp"**

**android:textStyle="bold"** />

</**RelativeLayout**>

FirstFragment.java

**package** com.example.jevitha.a18\_fragments\_dynamicloading;

**import** android.os.Bundle;

**import** android.app.Fragment;

**import** android.view.LayoutInflater;

**import** android.view.View;

**import** android.view.ViewGroup;

**import** android.widget.Button;

**import** android.widget.Toast;

**public class** FirstFragment **extends** Fragment {

View **view**;

Button **firstButton**;

*/\* Read this link for more info on inflator :* [*https://www.bignerdranch.com/blog/understanding-androids-layoutinflater-inflate/*](https://www.bignerdranch.com/blog/understanding-androids-layoutinflater-inflate/) *\*/*

@Override

**public** View onCreateView(LayoutInflater inflater, ViewGroup container,

Bundle savedInstanceState) {

*// Inflate the layout for this fragment*

**view** = inflater.inflate(R.layout.***fragment\_first***, container, **false**);

**firstButton** = (Button) **view**.findViewById(R.id.***firstButton***);

*// perform setOnClickListener on first Button*

**firstButton**.setOnClickListener(**new** View.OnClickListener() {

@Override

**public void** onClick(View v) {

*// display a message by using a Toast*

Toast.*makeText*(getActivity(), **"First Fragment"**, Toast.***LENGTH\_LONG***).show();

}

});

**return view**;

}

}

Fragment\_second.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/blue"**

**tools:context=".SecondFragment"**>

<**TextView**

**android:layout\_width="wrap\_content"**

**android:layout\_height="wrap\_content"**

**android:layout\_centerHorizontal="true"**

**android:layout\_marginTop="100dp"**

**android:text="This is Second Fragment"**

**android:textColor="@color/black"**

**android:textSize="25sp"** />

<**Button**

**android:id="@+id/secondButton"**

**android:layout\_width="fill\_parent"**

**android:layout\_height="wrap\_content"**

**android:layout\_centerInParent="true"**

**android:layout\_marginLeft="20dp"**

**android:layout\_marginRight="20dp"**

**android:background="@color/green"**

**android:text="Second Fragment"**

**android:textColor="@color/white"**

**android:textSize="20sp"**

**android:textStyle="bold"** />

</**RelativeLayout**>

SecondFragment.java

**package** com.example.jevitha.a18\_fragments\_dynamicloading;

**import** android.os.Bundle;

**import** android.app.Fragment;

**import** android.view.LayoutInflater;

**import** android.view.View;

**import** android.view.ViewGroup;

**import** android.widget.Button;

**import** android.widget.Toast;

**public class** SecondFragment **extends** Fragment {

View **view**;

Button **secondButton**;

@Override

**public** View onCreateView(LayoutInflater inflater, ViewGroup container,

Bundle savedInstanceState) {

*// Inflate the layout for this fragment*

**view** = inflater.inflate(R.layout.***fragment\_second***, container, **false**);

**secondButton** = (Button) **view**.findViewById(R.id.***secondButton***);

*// perform setOnClickListener on second Button*

**secondButton**.setOnClickListener(**new** View.OnClickListener() {

@Override

**public void** onClick(View v) {

*// display a message by using a Toast*

Toast.*makeText*(getActivity(), **"Second Fragment"**, Toast.***LENGTH\_LONG***).show();

}

});

**return view**;

}

}