3.Demonstrate adding and removing fragment at run time. Step-1: create a new project (Program-3)

Step-2:create first fragment(FirstFragment)

Go to->File->New->Fragment->Fragment(Blank) No need to change FirstFragment.java file.

Only we need to change xml file.

Step-3:create first fragment(SecondFragment)

Go to->File->New->Fragment->Fragment(Blank) No need to change SecondFragment.java file.

Only we need to change xml file.

# 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">

<FrameLayout

android:id="@+id/frameLayout" android:layout\_width="391dp" android:layout\_height="374dp" app:layout\_constraintBottom\_toBottomOf="parent" app:layout\_constraintEnd\_toEndOf="parent" app:layout\_constraintStart\_toStartOf="parent" app:layout\_constraintTop\_toTopOf="parent" app:layout\_constraintVertical\_bias="0.134">

</**FrameLayout**>

<Button

android:id="@+id/button" android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:text="Click" app:layout\_constraintBottom\_toBottomOf="parent" app:layout\_constraintEnd\_toEndOf="parent" app:layout\_constraintHorizontal\_bias="0.498" app:layout\_constraintStart\_toStartOf="parent" app:layout\_constraintTop\_toBottomOf="@+id/frameLayout" app:layout\_constraintVertical\_bias="0.475" />

</androidx.constraintlayout.widget.ConstraintLayout>

# Fragment\_first.xml

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

<FrameLayout 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" tools:context=".FirstFragment">

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

<TextView

android:layout\_width="match\_parent" android:layout\_height="match\_parent" android:gravity="center\_horizontal" android:text="This is first fragnment" android:textAlignment="center" android:textSize="34sp" />

</**FrameLayout**>

# Fragment\_second.xml:-

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

<FrameLayout 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" tools:context=".SecondFragment">

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

<TextView

android:layout\_width="match\_parent" android:layout\_height="match\_parent" android:text="This is Second fragment" android:textSize="34sp" android:textAlignment="center" android:gravity="center\_horizontal" />

</**FrameLayout**>

# MainActivity.java:-

**package** com.durgesh.program\_3;

**import** androidx.appcompat.app.AppCompatActivity; **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 {

FirstFragment **firstFragment**; SecondFragment **secondFragment**; **int showingFragment**=0;

Button **b1**;

@Override

**protected void** onCreate(Bundle savedInstanceState) { **super**.onCreate(savedInstanceState); setContentView(R.layout.***activity\_main***);

**b1**=findViewById(R.id.***button***); **firstFragment**=**new** FirstFragment();

**secondFragment**=**new** SecondFragment();

FragmentManager fragmentManager=getSupportFragmentManager(); FragmentTransaction fragmentTransaction=fragmentManager.beginTransaction(); fragmentTransaction.add(R.id.***frameLayout***,**firstFragment**); fragmentTransaction.commit();

showingFragment=1;

**b1**.setOnClickListener(**new** View.OnClickListener() { @Override

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

FragmentManager fragmentManager=getSupportFragmentManager();

FragmentTransaction fragmentTransaction=fragmentManager.beginTransaction();

**if**(**showingFragment**==1)

{

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

showingFragment=2;

}

else

{

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

showingFragment=1;

}

fragmentTransaction.commit();

}

});

}

}

