

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 fragment"
        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();
            }
        });
    }
}

```

