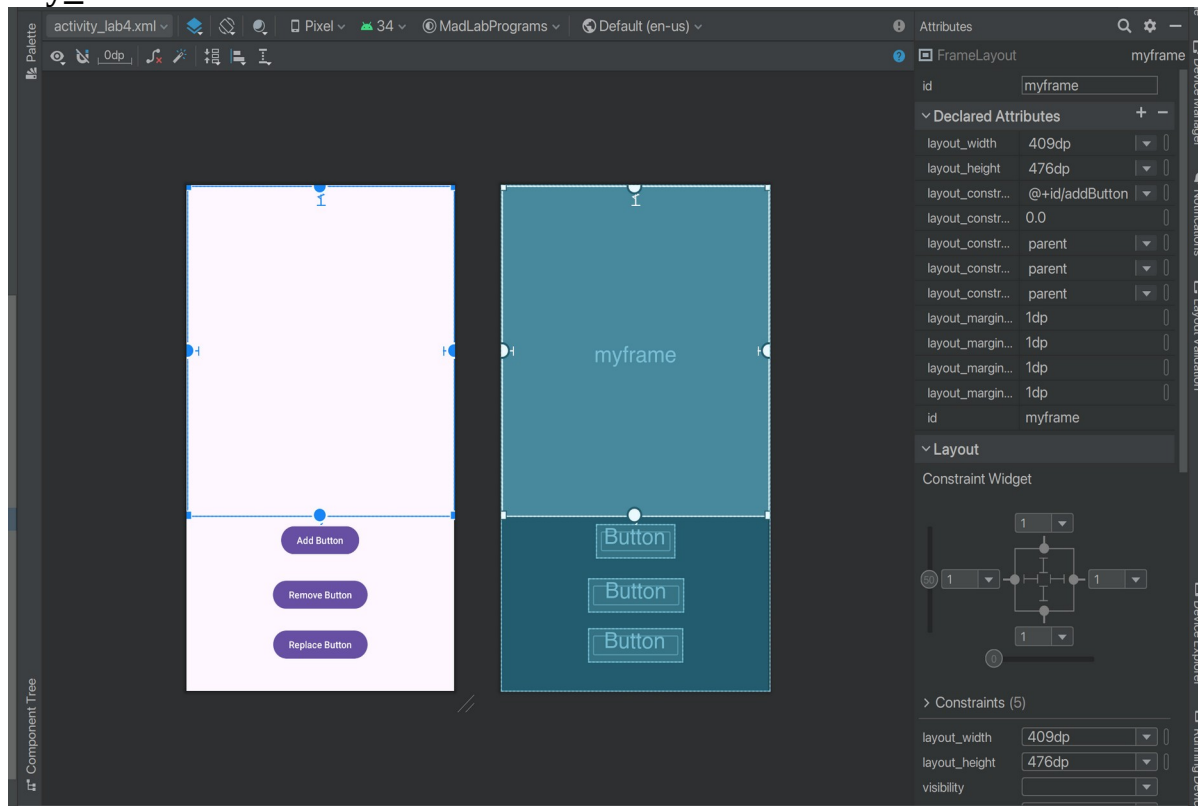


Program 4

Demonstrate adding and removing fragments at run time.

Design

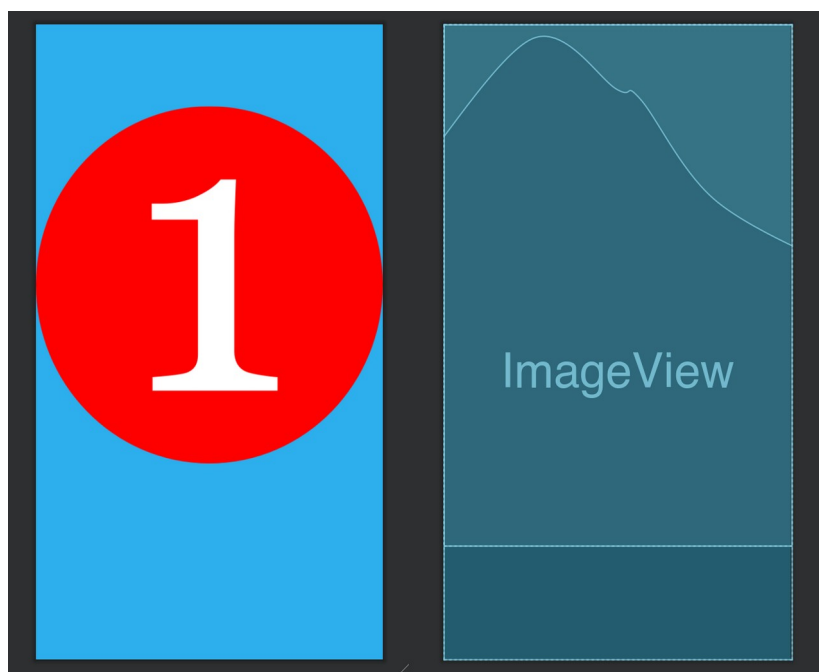
activity_main



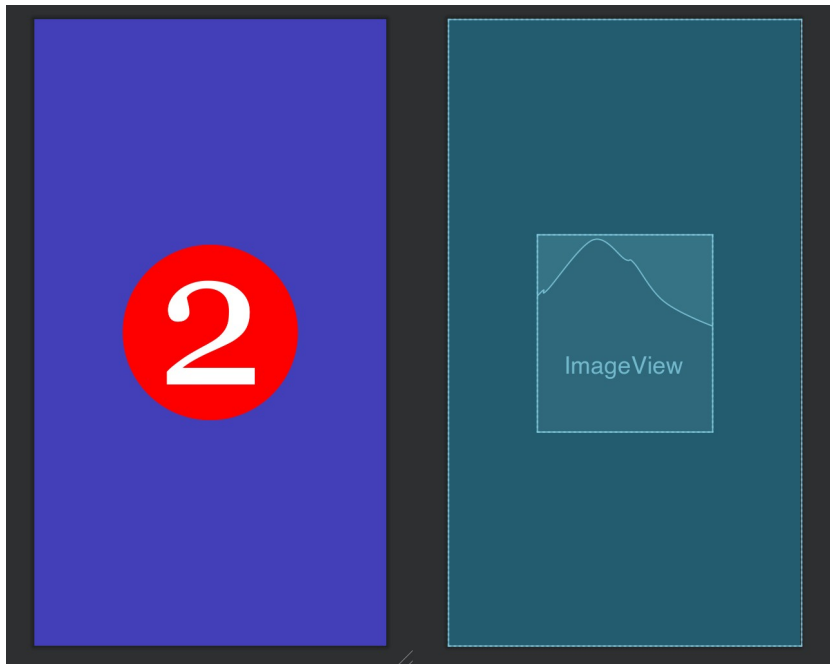
Create two fragmnet using

- 1) right click on app folder --> New--> fragmnet --> Fragmnet(blank) --> fragment1
- 2) right click on app folder --> New--> fragmnet --> Fragmnet(blank) --> fragment2

fragment1



fragment2



Xml Code

fragment1.xml

```
<FrameLayout 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/myFrag"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="#2DAFED"
    tools:context=".MyFrag">
```

```
    <ImageView
        android:id="@+id/imageView3"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:src="@drawable/number_1" />
```

```
</FrameLayout>
```

fragment1.xml

```
<FrameLayout 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"
    android:background="#433FB8"
    tools:context=".MyFrag_2">
```

```
    <ImageView
        android:id="@+id/imageView2"
        android:layout_width="205dp"
        android:layout_height="230dp"
        android:layout_gravity="center|center_horizontal|center_vertical"
```

```
        android:src="@drawable/number_2" />
</FrameLayout>
```

activity_main.xml

```
<Button
    android:id="@+id/removeButton"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginTop="31dp"
    android:layout_marginEnd="133dp"
    android:text="Remove Button"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/addButton" />

<FrameLayout
    android:id="@+id/myframe"
    android:layout_width="409dp"
    android:layout_height="476dp"
    android:layout_marginStart="1dp"
    android:layout_marginTop="1dp"
    android:layout_marginEnd="1dp"
    android:layout_marginBottom="1dp"
    app:layout_constraintBottom_toTopOf="@+id/addButton"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.0"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent">

</FrameLayout>

<Button
    android:id="@+id/addButton"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginTop="12dp"
    android:layout_marginEnd="146dp"
    android:text="Add Button"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/myframe" />

<Button
    android:id="@+id/replaceButton"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginTop="24dp"
    android:layout_marginEnd="133dp"
    android:text="Replace Button"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/removeButton" />
```

Java Code

MainActivity.java

```
public class MainActivity extends AppCompatActivity {

    Button addButton;
    Button removeButton;
    Button replaceButton;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_lab4);
        addButton = findViewById(R.id.addButton);
        removeButton = findViewById(R.id.removeButton);
        replaceButton = findViewById(R.id.replaceButton);

        MyFrag f1 = new MyFrag();
        MyFrag_2 f2 = new MyFrag_2();
        replaceButton.setEnabled(false);
        addButton.setOnClickListener(v->{
            FragmentManager fm = getSupportFragmentManager();
            FragmentTransaction ft = fm.beginTransaction();
            ft.add(R.id.myframe,f1)
                .commit();
            addButton.setEnabled(false);
            replaceButton.setEnabled(true);
        });

        removeButton.setOnClickListener(v->{
            FragmentManager fm = getSupportFragmentManager();
            FragmentTransaction ft = fm.beginTransaction();
            ft.remove(f1)
                .remove(f2)
                .commit();
            addButton.setEnabled(true);
            replaceButton.setEnabled(false);
        });

        replaceButton.setOnClickListener(v->{
            FragmentManager fm = getSupportFragmentManager();
            FragmentTransaction ft = fm.beginTransaction();
            ft.replace(R.id.myframe, f2)
                .commit();
        });
    }
}
```