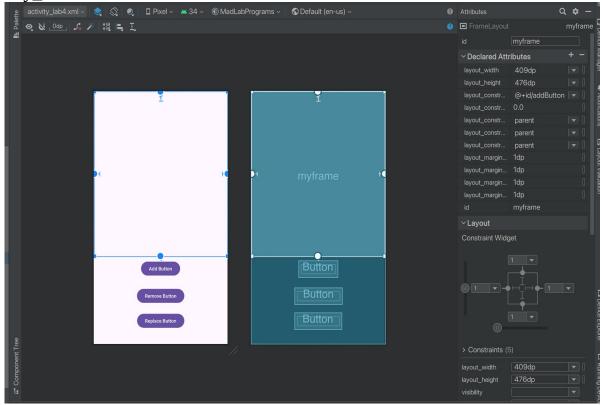
Program 4 Demonstrate adding and removing fragments at run time.

Design

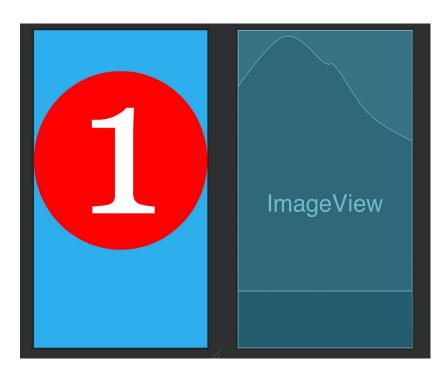
activity_main



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"</p>
  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"</p>
  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();
    });
  }
}
```