

Lab Exercise 09: Two Fragments (Background Color and Text Color)

ActivityMain.java

```
package com.example.lab09;

import androidx.appcompat.app.AppCompatActivity;
import androidx.fragment.app.Fragment;
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 {
    Button firstBtn, secondBtn;

    @Override
    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        firstBtn = findViewById(R.id.button);
        secondBtn = findViewById(R.id.button2);

        firstBtn.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                replaceFragment(new Fragment1());
            }
        });

        secondBtn.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                replaceFragment(new Fragment2());
            }
        });
    }

    private void replaceFragment(Fragment fragment) {
        FragmentManager fm = getSupportFragmentManager();
        FragmentTransaction ft = fm.beginTransaction();
        ft.replace(R.id.frameLayout, fragment);
        ft.commit();
    }
}
```

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

    <FrameLayout
        android:id="@+id/frameLayout"
        android:layout_width="match_parent"
        android:layout_height="600dp"
        android:layout_alignParentBottom="true"
        android:layout_marginBottom="0sp" />

    <Button
        android:id="@+id/button"
        android:layout_width="150sp"
        android:layout_height="60sp"
        android:layout_marginStart="30dp"
        android:layout_marginTop="10sp"
        android:text="@string/fragment_1" />

    <Button
        android:id="@+id/button2"
        android:layout_width="150sp"
        android:layout_height="60sp"
        android:layout_alignParentEnd="true"
        android:layout_marginTop="10sp"
        android:layout_marginEnd="30dp"
        android:text="@string/fragment_2" />

</RelativeLayout>
```

fragment_1.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"
    android:background="@color/cardview_dark_background"
    tools:context=".Fragment1">

    <TextView
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:text="@string/background_color_changed_successfully"
        android:textColor="@color/cardview_light_background"
        android:textSize="25sp" />

</FrameLayout>
```

fragment_2.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=".Fragment2">

    <TextView
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:text="@string/text_color_changed_successfully"
        android:textColor="@color/purple_200"
        android:textSize="25sp" />

</FrameLayout>
```

Fragment1.java

```
package com.example.lab09;

import android.os.Bundle;

import androidx.fragment.app.Fragment;

import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;

public class Fragment1 extends Fragment {

    @Override
    public View onCreateView(LayoutInflater inflater, ViewGroup container,
        Bundle savedInstanceState) {
        // Inflate the layout for this fragment
        return inflater.inflate(R.layout.fragment_1, container, false);
    }
}
```

Fragment2.java

```
package com.example.lab09;

import android.os.Bundle;

import androidx.fragment.app.Fragment;

import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;

public class Fragment2 extends Fragment {

    @Override
    public View onCreateView(LayoutInflater inflater, ViewGroup container,
                             Bundle savedInstanceState) {
        // Inflate the layout for this fragment
        return inflater.inflate(R.layout.fragment_2, container, false);
    }
}
```

strings.xml

```
<resources>
    <string name="app_name">Lab09</string>
    <string name="fragment_2">Set Text Color</string>
    <string name="fragment_1">Set BG Color</string>
    <string name="background_color_changed_successfully">Background Color Changed
Successfully</string>
    <string name="text_color_changed_successfully">Text Color Changed
Successfully</string>
</resources>
```

OUTPUT



SET BG COLOR

SET TEXT
COLOR



SET BG COLOR

SET TEXT
COLOR



SET BG COLOR

SET TEXT
COLOR

Background Color Changed
Successfully

Text Color Changed Successfully

