

DEPARTMENT OF

COMPUTER SCIENCE & ENGINEERING

## Experiment 7

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Subject Name: MAD Lab

Subject Code: 20CSP-356

### Aim

Make an android app that uses two fragments and have button to switch between them.

### Objective

Create an application that uses two fragments and have button to switch between them.

### Script and Output

#### 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:id="@+id/activity_main"
    android:layout_width="match_parent"    android:layout_height="match_parent" tools:context=".MainActivity"

    <FrameLayout android:id="@+id/flFragment"
        android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:layout_above="@+id/buttons_layout" />
    <LinearLayout android:id="@+id/buttons_layout"
    android:layout_width="match_parent" android:layout_height="wrap_content"
    android:layout_alignParentBottom="true"
        android:orientation="horizontal"
    android:padding="16dp"    android:layout_margin="16dp"
        android:layout_gravity="center_horizontal" android:layout_alignParentStart="true"
    android:layout_alignParentEnd="true"    android:layout_alignParentLeft="true"
    android:layout_alignParentRight="true"    android:layout_alignParentTop="false"    android:gravity="center">
<Button
```



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```
        android:id="@+id/btnFirst"  
style="@style/Widget.AppCompat.Button"  
        android:layout_width="0dp" android:layout_height="wrap_content" android:layout_weight="1"  
        android:text="OFF" />
```

```
        <Button android:id="@+id/btnSecond"  
style="@style/Widget.AppCompat.Button"  
        android:layout_width="0dp" android:layout_height="wrap_content"  
        android:layout_weight="1"
```

```
        android:text="ON" />
```

```
</LinearLayout>
```

```
</RelativeLayout>
```

### MainActivity.java

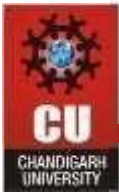
```
package com.example.exp7; import androidx.appcompat.app.AppCompatActivity;  
import androidx.fragment.app.Fragment; import  
androidx.fragment.app.FragmentManager; import  
androidx.fragment.app.FragmentTransaction; import android.os.Bundle; import  
android.view.View; import android.widget.Button; public class MainActivity  
extends AppCompatActivity {
```

```
    private Button btnFirst, btnSecond;  
    @Override protected void onCreate(Bundle savedInstanceState) {  
        super.onCreate(savedInstanceState);  
        setContentView(R.layout.activity_main);
```

```
        btnFirst = findViewById(R.id.btnFirst);    btnSecond =  
        findViewById(R.id.btnSecond);    final FirstFragment firstFragment = new  
        FirstFragment();    final SecondFragment secondFragment = new  
        SecondFragment();    setCurrentFragment(firstFragment);
```

```
        btnFirst.setOnClickListener(new View.OnClickListener() {  
            @Override public void onClick(View v) {  
                setCurrentFragment(firstFragment);  
            }  
        });
```

```
        btnSecond.setOnClickListener(new View.OnClickListener() {
```



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```
@Override public void onClick(View v) {
    setCurrentFragment(secondFragment);
}
}); } private void setCurrentFragment(Fragment fragment)
{
    FragmentManager fragmentManager = getSupportFragmentManager();
    FragmentTransaction fragmentTransaction = fragmentManager.beginTransaction();
    fragmentTransaction.replace(R.id.flFragment, fragment); fragmentTransaction.commit(); } }
```

first

fragment.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto" android:layout_width="match_parent"
    android:layout_height="match_parent" android:orientation="vertical" android:gravity="center">
<TextView android:layout_width="wrap_content"
    android:layout_height="wrap_content" android:text="This is the first
    fragment" android:textSize="24sp" />
```

```
</LinearLayout>
```

second fragment.xml

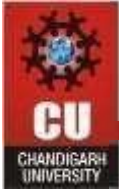
```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto" android:layout_width="match_parent"
    android:layout_height="match_parent" android:orientation="vertical" android:gravity="center">
<TextView android:layout_width="wrap_content"
    android:layout_height="wrap_content" android:text="This is the second
    fragment" android:textSize="24sp" />
```

```
</LinearLayout>
```

first fragment.java

```
package com.example.exp7;
```

```
import android.os.Bundle; import
```



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```
androidx.fragment.app.Fragment; import  
android.view.LayoutInflater; import android.view.View; import android.view.ViewGroup;
```



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```
public class FirstFragment extends Fragment {
```

```
    public FirstFragment() {}
```

**@Override**

```
    public View onCreateView(LayoutInflater inflater, ViewGroup container, Bundle savedInstanceState) {  
        return inflater.inflate(R.layout.first_fragment, container, false);}}
```

## second fragment.java

```
package com.example.exp7;
```

```
import android.os.Bundle; import  
androidx.fragment.app.Fragment; import  
android.view.LayoutInflater; import android.view.View;  
import android.view.ViewGroup;
```

```
public class SecondFragment extends Fragment {
```

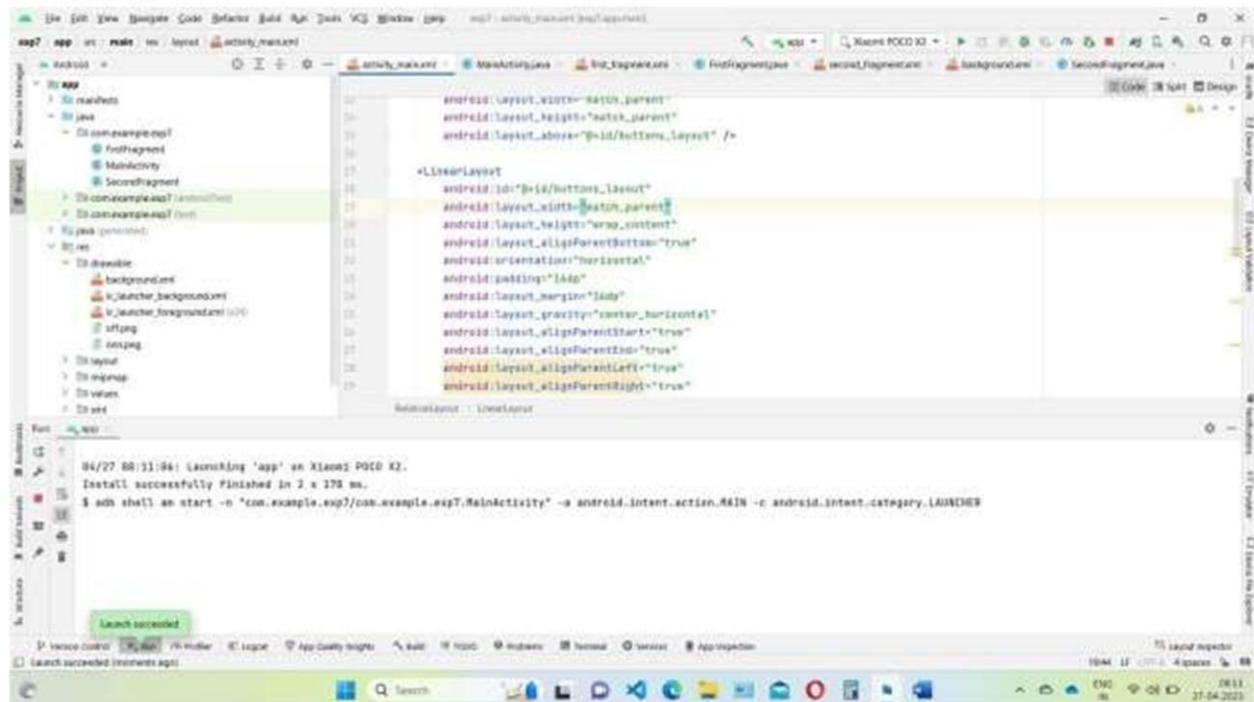
```
    public SecondFragment() {}
```

**@Override**

```
    public View onCreateView(LayoutInflater inflater, ViewGroup container, Bundle savedInstanceState) {  
        return inflater.inflate(R.layout.second_fragment, container, false);
```

```
    }  
}
```

## OUTPUT:





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