



# **DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**

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## **Experiment-3.1**

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**Subject Name: Mobile Application Development Lab**

**Subject Code: 20CSP-356**

### **1. Aim:**

Create an Android application using Fragments.

### **2. Apparatus / Simulator Used:**

- Linux OS/ Windows 7 or above
- Android Studio
- Ram 4 GB and above
- Java (Including JDK & JRE)

### **3. Objective:**

- To understand the concept of fragments.
- To implement the fragment in Android Studio.
- To implement the layout in Android Studio.
- To implement the viewgroup in Android Studio.



## 4. Code:

### MainActivity.java

```
package com.example.fragment;

import android.os.Bundle;

import androidx.appcompat.app.AppCompatActivity;

public class MainActivity extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
    }
}
```

### Fragment1.java

```
package com.example.fragment;

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

import androidx.fragment.app.Fragment;

public class Fragment1 extends Fragment {

    @Override
```



```
public void onCreate(Bundle savedInstanceState) {  
    super.onCreate(savedInstanceState);  
}  
  
@Override  
public View onCreateView(LayoutInflater inflater, ViewGroup container,  
    Bundle savedInstanceState) {  
    // Inflate the layout for this fragment  
    return inflater.inflate(R.layout.fragment_fragment1, container, false);  
}  
}
```

## **Fragment2.java**

```
package com.example.fragment;  
  
import android.os.Bundle;  
import android.view.LayoutInflater;  
import android.view.View;  
import android.view.ViewGroup;  
  
import androidx.fragment.app.Fragment;  
  
public class Fragment2 extends Fragment {  
  
    @Override  
    public void onCreate(Bundle savedInstanceState) {  
        super.onCreate(savedInstanceState);  
    }  
  
    @Override  
    public View onCreateView(LayoutInflater inflater, ViewGroup container,  
        Bundle savedInstanceState) {
```

```
// Inflate the layout for this fragment
return inflater.inflate(R.layout.fragment_fragment2, container, false);
}

}
```

## **activity\_main.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"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="fill_parent"
    android:layout_height="fill_parent"
    tools:context="com.example.fragment.MainActivity">

    <fragment
        android:id="@+id/fragment1"
        android:name="com.example.fragment.Fragment1"
        android:layout_width="0px"
        android:layout_height="match_parent"
        android:layout_weight="1"
        />

    <fragment
        android:id="@+id/fragment2"
        android:name="com.example.fragment.Fragment2"
        android:layout_width="0px"
        android:layout_height="match_parent"
        android:layout_weight="1"
        />

</LinearLayout>
```

## **fragment\_fragment1.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="#F5F5DC"
    tools:context="com.example.fragment.Fragment1">

    <TextView
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:textSize="25dp"

        android:text="@string/hello_blank_fragment"

    />

</FrameLayout>
```

**fragment\_fragment1.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="#F0FFFF"
    tools:context="com.example.fragment.Fragment2">

    <TextView
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:textSize="26dp"
        android:text="@string/hello_blank_fragment" />

</FrameLayout>
```

## 5. Output:

### App overview

