**Experiment-3.1**

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**Semester: 6th Date of Performance: 21/04/2023**

**Subject Name: MAD Lab Subject Code: 20CSP-356**

**Aim: To implement different android fragements in android studio.**

**Code:**

#### 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"  
 >  
  
 <fragment  
 android:id="@+id/Fragment1"  
 android:name="com.example.myapplication7979.Fragment1"  
 android:layout\_width="0px"  
 android:layout\_height="match\_parent"  
 android:layout\_weight="1"  
 />  
  
 <fragment  
 android:id="@+id/Fragment2"  
 android:name="com.example.myapplication7979.Fragment2"  
 android:layout\_width="0px"  
 android:layout\_height="match\_parent"  
 android:layout\_weight="1"  
 />  
 <fragment  
 android:id="@+id/Fragment3"  
 android:name="com.example.myapplication7979.Fragment3"  
 android:layout\_width="0px"  
 android:layout\_height="match\_parent"  
 android:layout\_weight="1"  
 />  
 <fragment  
 android:id="@+id/Fragment4"  
 android:name="com.example.myapplication7979.Fragment4"  
 android:layout\_width="0px"  
 android:layout\_height="match\_parent"  
 android:layout\_weight="1"  
 />  
  
</LinearLayout>

#### MainActivity class

package com.example.myapplication7979;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.os.Bundle;  
  
  
import android.os.Bundle;  
  
public class MainActivity extends AppCompatActivity {  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
 }  
}

*fragment\_fragment1.xml*

<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="#A6D0DD  
"  
 tools:context="com.example.myapplication7979.Fragment1">  
  
 <!-- *TODO: Update blank fragment layout* -->  
 <TextView  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:text="Chandigarh University" />  
  
</FrameLayout>

*fragment\_fragment2.xml*

<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="#ff0000"  
 tools:context="com.example.myapplication7979.Fragment2">  
  
 <!-- *TODO: Update blank fragment layout* -->  
 <TextView  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:text="COMPUTER SCIENCE" />  
  
</FrameLayout>

*Fragment1.java*

package com.example.myapplication7979;  
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.myapplication7979;  
  
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);  
 }  
  
}

*Fragment3.java*

package com.example.myapplication7979;  
  
import android.os.Bundle;  
  
import android.view.LayoutInflater;  
import android.view.View;  
import android.view.ViewGroup;  
  
import androidx.fragment.app.Fragment;  
  
public class Fragment3 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\_fragment3*, container, false);  
 }  
  
}

*Fragment4.java*

package com.example.myapplication7979;  
  
import android.os.Bundle;  
  
import android.os.Bundle;  
import android.view.LayoutInflater;  
import android.view.View;  
import android.view.ViewGroup;  
  
import androidx.fragment.app.Fragment;  
  
public class Fragment4 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\_fragment4*, container, false);  
 }  
  
}

**OUTPUT:**

