“**Experiment 2.3”**

**Student Name: SUMIT KUMAR UID: 20BCS8226**

**Branch: CSE Section/Group: DM-720 A**

**Semester: 6th Date of Performance: 01-05-23**

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

**AIM:**

Create an android application using fragments.

**Requirements:**

Android Studio.

## Script and Output: 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 {

Button button, button2;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

button = findViewById(R.id.chat);

button2 = findViewById(R.id.calls);

button.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

replaceFragment(new Fragment1());

}

});

button2.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

replaceFragment(new Fragment2());

}

});

}

private void replaceFragment(Fragment fragment) {

FragmentManager fragmentManager = getSupportFragmentManager();

FragmentTransaction fragmentTransaction = fragmentManager.beginTransaction();

fragmentTransaction.replace(R.id.frameLayout,fragment);

fragmentTransaction.commit();

}

}

# Activity\_main.xml:

<?xml version="1.0" encoding="utf-8"?>

<androidx.constraintlayout.widget.ConstraintLayout 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="match\_parent"

android:layout\_height="match\_parent"

tools:context=".MainActivity">

<FrameLayout

android:id="@+id/frameLayout"

android:layout\_width="406dp"

android:layout\_height="505dp"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.666"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="1.0">

</FrameLayout>

<Button

android:id="@+id/chat"

android:layout\_width="122dp"

android:layout\_height="55dp"

android:text="UID"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.176"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.122" />

<Button

android:id="@+id/calls"

android:layout\_width="122dp"

android:layout\_height="55dp"

android:text="Name"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.809"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.122" />

<TextView

android:id="@+id/textView"

android:layout\_width="409dp"

android:layout\_height="58dp"

android:text="Use of Fragments"

android:textAlignment="center"

android:textColor="#4CAF50"

android:textSize="24sp"

android:textStyle="bold"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.459"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.004" />

</androidx.constraintlayout.widget.ConstraintLayout>

**Fragment1.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 Fragment1 extends Fragment {

View view;

@Override

public View onCreateView(LayoutInflater inflater, ViewGroup container,

Bundle savedInstanceState) {

// Inflate the layout for this fragment

view = inflater.inflate(R.layout.fragment\_1, container, false);

return view;

}

}

**fragment\_1.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"

android:background="#f5f4e4"

tools:context=".Fragment1">

<!-- TODO: Update blank fragment layout -->

<TextView

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:text="20BCS8226"

android:textAlignment="center"

android:textColor="#050607"

android:textSize="34sp" />

</RelativeLayout>

**Fragment2.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 Fragment2 extends Fragment {

View view;

@Override

public View onCreateView(LayoutInflater inflater, ViewGroup container,

Bundle savedInstanceState) {

// Inflate the layout for this fragment

view = inflater.inflate(R.layout.fragment\_2, container, false);

return view;

}

}

**fragment\_2.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"

android:background="#eed0f7"

tools:context=".Fragment2">

<!-- TODO: Update blank fragment layout -->

<TextView

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:text="SUMIT KUMAR"

android:textColor="#050607"

android:textAlignment="center"

android:textSize="34sp" />

</RelativeLayout>

**OUTPUT:**

 