**Problem statement : Create an application using 2 Fragments in 2 Activities.**

**MainActivity.java**

package com.example.exp4;

import android.os.Bundle;

import android.widget.Button;

import androidx.appcompat.app.AppCompatActivity;

import androidx.fragment.app.FragmentTransaction;

public class MainActivity extends AppCompatActivity {

Button bt1;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.*activity\_main*);

bt1 = findViewById(R.id.*button*);

bt1.setOnClickListener(view -> {

FragmentTransaction fragmentTransaction = getSupportFragmentManager().beginTransaction();

fragmentTransaction.replace(R.id.*MainLayout*,new Fragment1());

fragmentTransaction.addToBackStack(null);

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"

android:id="@+id/MainLayout"

tools:context=".MainActivity">

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Open the Form"

android:textSize="30dp"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.467"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.13"

tools:ignore="HardcodedText,SpUsage" />

<Button

android:id="@+id/button"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Open Form"

android:background="#D61239"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.498"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.224"

tools:ignore="HardcodedText" />

</androidx.constraintlayout.widget.ConstraintLayout>

**Fragment1.java**

package com.example.exp4;

import android.annotation.SuppressLint;

import android.content.Intent;

import android.os.Bundle;

import android.view.LayoutInflater;

import android.view.View;

import android.view.ViewGroup;

import android.widget.Button;

import android.widget.EditText;

import androidx.fragment.app.Fragment;

public class Fragment1 extends Fragment {

@SuppressLint("MissingInflatedId")

@Override

public View onCreateView(LayoutInflater inflater, ViewGroup container, Bundle savedInstanced){

View view =inflater.inflate(R.layout.*activity\_fragment1*,container,false);

EditText txt1,txt2;

Button bt1;

txt1 = view.findViewById(R.id.*txt1*);

txt2 = view.findViewById(R.id.*txt2*);

bt1 = view.findViewById(R.id.*button*);

bt1.setOnClickListener(view1 -> {

String name = txt1.getText().toString();

String number = txt2.getText().toString();

Intent i = new Intent(getActivity(),MainActivity2.class);

i.putExtra("name",name);

i.putExtra("number",number);

startActivity(i);

});

return view;

}

}

**activity\_fragment1.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=".Fragment1">

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Name"

android:textSize="20dp"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.044"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.396" />

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Number"

android:textSize="20dp"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.047"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.556" />

<EditText

android:id="@+id/txt1"

android:layout\_width="284dp"

android:layout\_height="52dp"

android:hint="enter your name"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.916"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.4" />

<EditText

android:id="@+id/txt2"

android:layout\_width="284dp"

android:layout\_height="52dp"

android:hint="enter your number"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.921"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.555" />

<Button

android:id="@+id/button"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Submit"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.748" />

</androidx.constraintlayout.widget.ConstraintLayout>

**MainActivity2.java**

package com.example.exp4;

import android.content.Intent;

import android.os.Bundle;

import android.widget.Button;

import androidx.appcompat.app.AppCompatActivity;

import androidx.fragment.app.FragmentTransaction;

public class MainActivity2 extends AppCompatActivity {

Button bt1;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.*activity\_main2*);

bt1 = findViewById(R.id.*button1*);

bt1.setOnClickListener(view -> {

Bundle bundle = new Bundle();

Intent i = getIntent();

String name = i.getStringExtra("name");

String number = i.getStringExtra("number");

bundle.putString("name",name);

bundle.putString("number",number);

Fragment2 fraginfo = new Fragment2();

fraginfo.setArguments(bundle);

FragmentTransaction fragmentTransaction = getSupportFragmentManager().beginTransaction();

fragmentTransaction.replace(R.id.*MainLayout1*,fraginfo);

fragmentTransaction.commit();

});

}

}

**activity\_main2.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"

android:id="@+id/MainLayout1"

tools:context=".MainActivity2">

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="See The Result"

android:textSize="30dp"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.467"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.13" />

<Button

android:id="@+id/button1"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Result"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.498"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.224" />

<TextView

android:id="@+id/txt1"

android:layout\_width="284dp"

android:layout\_height="52dp"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.916"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.4" />

<TextView

android:id="@+id/txt2"

android:layout\_width="284dp"

android:layout\_height="52dp"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.921"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.555" />

</androidx.constraintlayout.widget.ConstraintLayout>

**Fragment2.java**

package com.example.exp4;

import android.os.Bundle;

import android.view.LayoutInflater;

import android.view.View;

import android.view.ViewGroup;

import android.widget.TextView;

import androidx.fragment.app.Fragment;

public class Fragment2 extends Fragment {

@Override

public View onCreateView(LayoutInflater inflater, ViewGroup container, Bundle savedInstanced){

View view = inflater.inflate(R.layout.*activity\_fragment2*,container,false);

TextView T1,T2;

T1 = view.findViewById(R.id.*txt1*);

T2 = view.findViewById(R.id.*txt2*);

Bundle bundle = this.getArguments();

if(bundle!=null)

{

String name = bundle.getString("name");

String number = bundle.getString("number");

T1.setText(name);

T2.setText(number);

}

return view;

}

}

**activity\_fragment2.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=".Fragment2">

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Name"

android:textSize="20dp"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.044"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.396" />

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Number"

android:textSize="20dp"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.047"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.556" />

<TextView

android:id="@+id/txt1"

android:layout\_width="284dp"

android:layout\_height="52dp"

android:textSize="20sp"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.916"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.4" />

<TextView

android:id="@+id/txt2"

android:layout\_width="284dp"

android:layout\_height="52dp"

android:textSize="20sp"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.921"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.555" />

</androidx.constraintlayout.widget.ConstraintLayout>