**PRACTICAL 4(B)**

**Aim: Create android application to create two fragment and two button on main activity. One clicks of first button display first fragment and on click of second button display second fragment**

**Code:**

**JAVA FILE: (MainActivity.java)**

package com.example.practical4b;

import android.os.Bundle;

import androidx.appcompat.app.AppCompatActivity;

import androidx.fragment.app.Fragment;

import androidx.fragment.app.FragmentManager;

import androidx.fragment.app.FragmentTransaction;

import android.view.View;

import android.widget.Button;

public class MainActivity extends AppCompatActivity {

private Button hiButton;

private Button helloButton;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

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

hiButton = findViewById(R.id.*firstButton*);

helloButton = findViewById(R.id.*secondButton*);

hiButton.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

displayFragment(new FirstFragment());

}

});

helloButton.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

displayFragment(new SecondFragment());

}

});

}

private void displayFragment(Fragment fragment) {

FragmentManager fragmentManager = getSupportFragmentManager();

FragmentTransaction transaction = fragmentManager.beginTransaction();

transaction.replace(R.id.*fragmentContainer*, fragment);

transaction.addToBackStack(null); *// Optional, for back navigation*

transaction.commit();

}

}

**JAVA FILE: (FirstFragment.java)**

package com.example.practical4b;

import android.os.Bundle;

import android.view.LayoutInflater;

import android.view.View;

import android.view.ViewGroup;

import androidx.fragment.app.Fragment;

public class FirstFragment extends Fragment {

@Override

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

return inflater.inflate(R.layout.*fragment\_first*, container, false);

}

}

**JAVA FILE: (SecondFragment.java)**

package com.example.practical4b;

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 {

@Override

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

return inflater.inflate(R.layout.fragment\_second, container, false);

}

}

**XML FILE: (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">

<TextView

android:id="@+id/textView"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginTop="50dp"

android:text=" Name: Angat Shah \n Enrollment No: 202203103510097 \n Branch: B.Tech CSE"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.497"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

tools:ignore="MissingConstraints" />

<Button

android:id="@+id/firstButton"

android:layout\_width="250dp"

android:layout\_height="wrap\_content"

android:text="Display First Fragment"

android:textSize="17dp"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="@+id/textView"

app:layout\_constraintVertical\_bias="0.250" />

<Button

android:id="@+id/secondButton"

android:layout\_width="250dp"

android:layout\_height="wrap\_content"

android:text="Display Second Fragment"

android:textSize="17dp"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="@+id/firstButton"

app:layout\_constraintVertical\_bias="0.200" />

<FrameLayout

android:id="@+id/fragmentContainer"

android:layout\_width="match\_parent"

android:layout\_height="0dp"

android:layout\_weight="1"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintTop\_toBottomOf="@+id/secondButton"

tools:ignore="MissingConstraints" />

</androidx.constraintlayout.widget.ConstraintLayout>

**XML FILE: (fragment\_first.xml)**

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

<androidx.constraintlayout.widget.ConstraintLayout 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">

<TextView

xmlns:android="http://schemas.android.com/apk/res/android"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:text="FRAGMENT 1"

android:textStyle="bold"

android:textSize="40dp"

android:gravity="center"/>

</androidx.constraintlayout.widget.ConstraintLayout>

**XML FILE: (fragment\_second.xml)**

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

<androidx.constraintlayout.widget.ConstraintLayout 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">

<TextView

xmlns:android="http://schemas.android.com/apk/res/android"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:text="FRAGMENT 2"

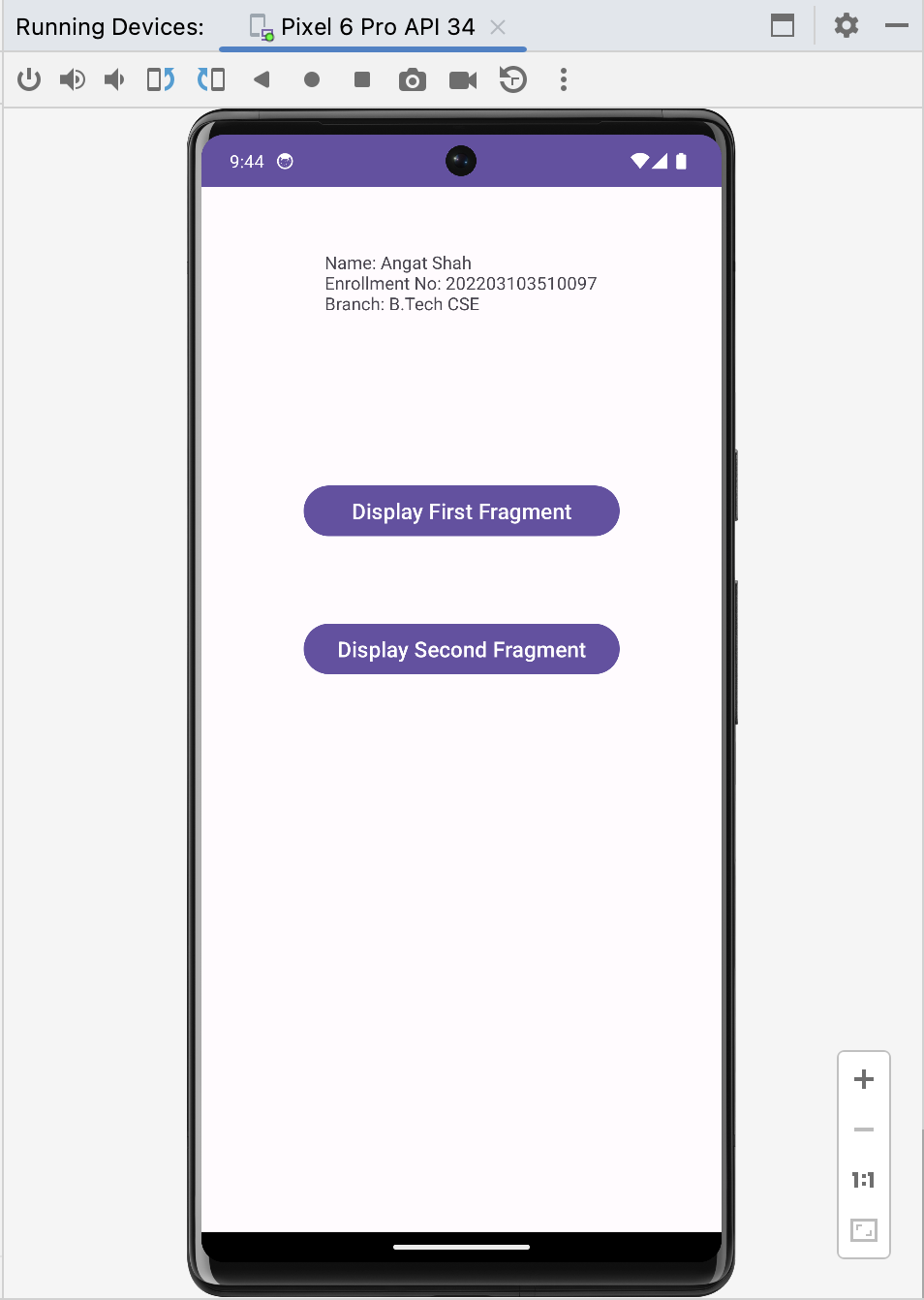
android:textStyle="bold"

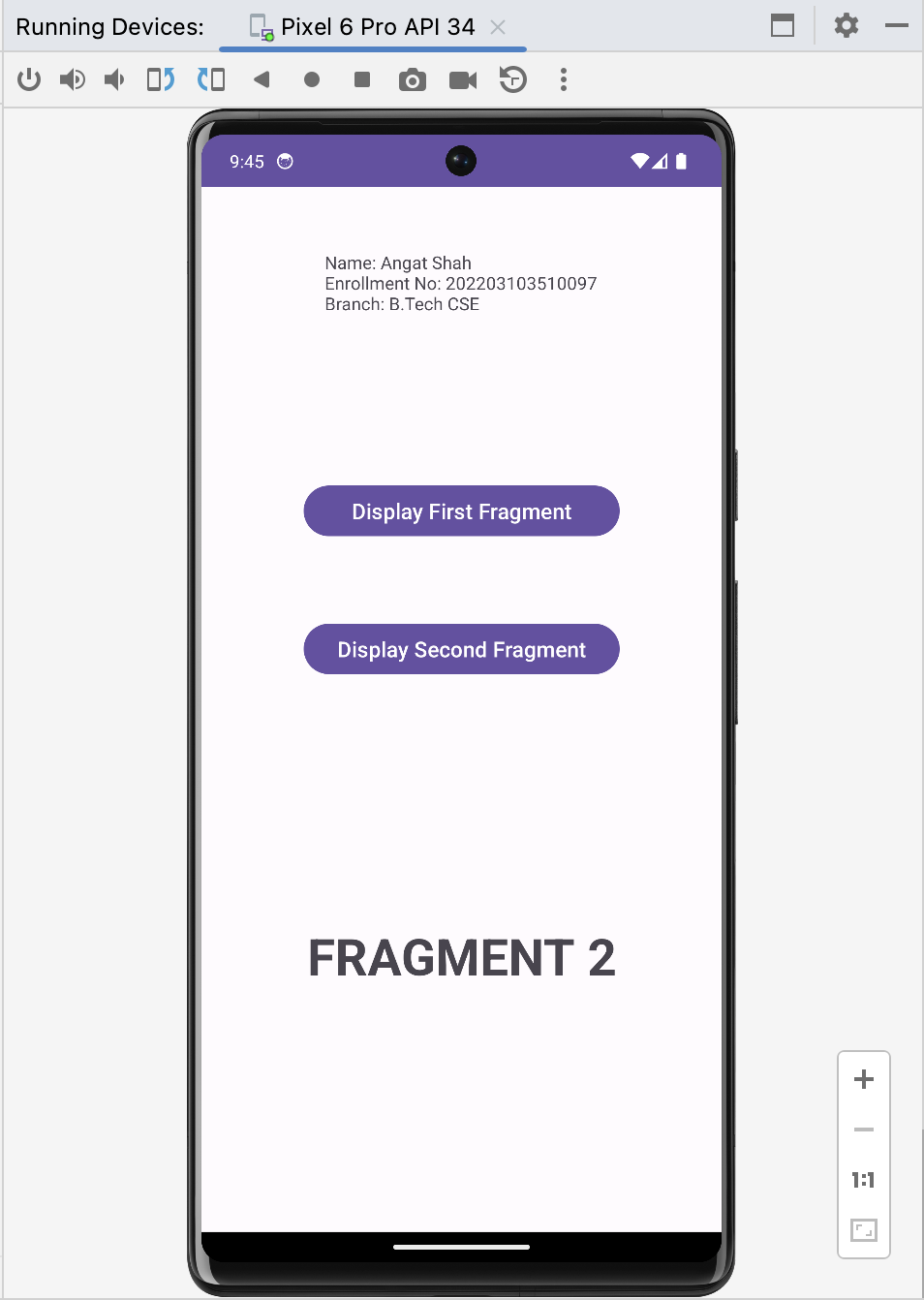
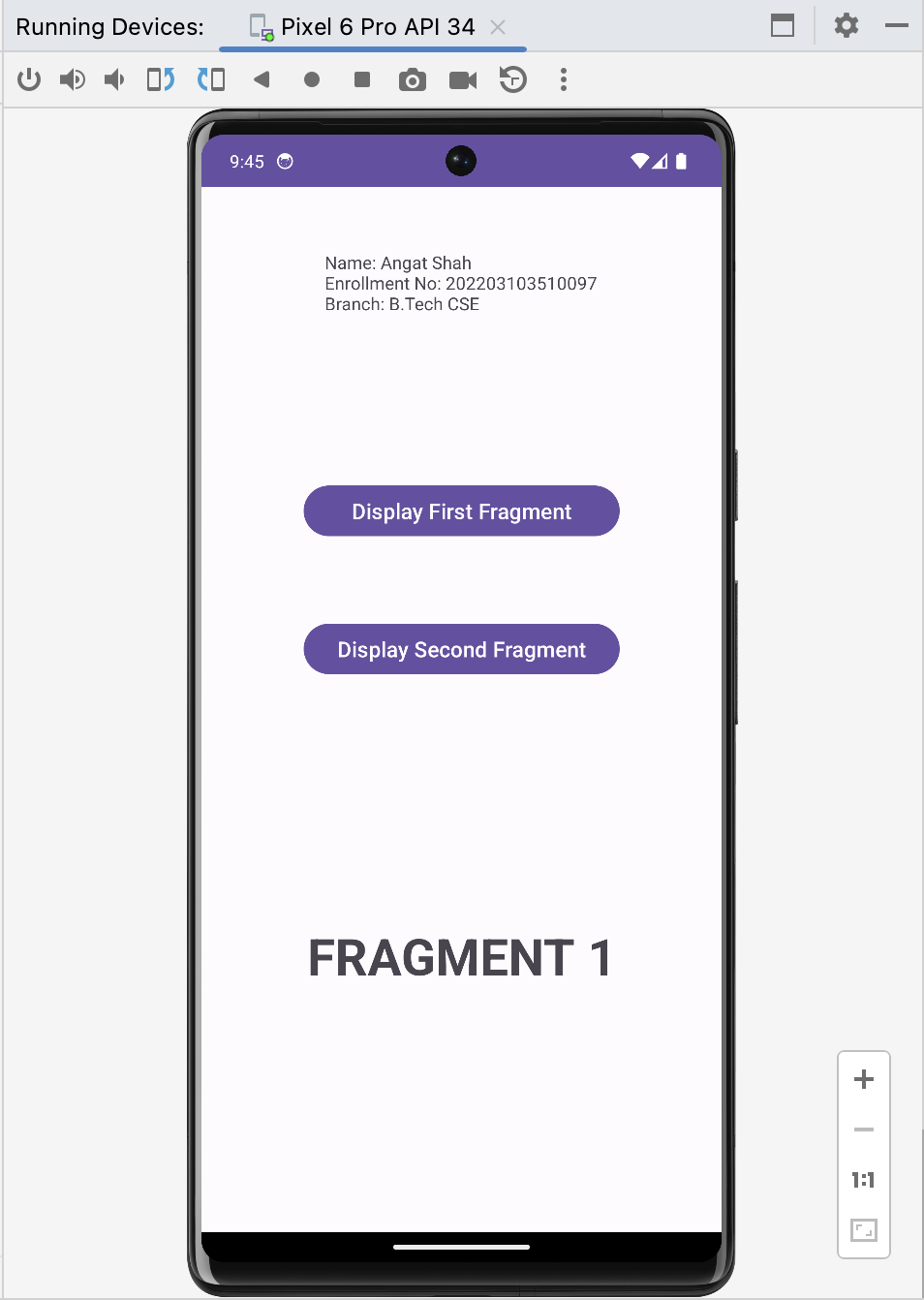
android:textSize="40dp"

android:gravity="center"/>

</androidx.constraintlayout.widget.ConstraintLayout>

**Output:**

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