## **PRACTICAL 4(B)**

<u>Aim</u>: 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);
```

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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 on Create View (Layout Inflater inflater, View Group 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 on Create View (Layout Inflater inflater, View Group 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 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:**



