COURSE OUTCOME:4

PROGRAM:4

AIM: Develop application using Fragments

SOURCE CODE:

Activity\_main.xml:

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

<RelativeLayout 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"

tools:context=".MainActivity">

<FrameLayout

android:layout\_width="wrap\_content"

android:layout\_height="600dp"

android:id="@+id/Frame"/>

<Button

android:id="@+id/button1"

android:layout\_width="150dp"

android:layout\_height="60dp"

android:layout\_alignParentEnd="true"

android:layout\_alignParentBottom="true"

android:layout\_marginStart="50dp"

android:layout\_marginEnd="130dp"

android:layout\_marginBottom="504dp"

android:backgroundTint="@color/purple\_500"

android:text="Fragment1" />

<Button

android:id="@+id/button2"

android:layout\_width="150dp"

android:layout\_height="60dp"

android:layout\_alignParentStart="true"

android:layout\_alignParentEnd="true"

android:layout\_alignParentBottom="true"

android:layout\_marginStart="128dp"

android:layout\_marginEnd="133dp"

android:layout\_marginBottom="394dp"

android:backgroundTint="@color/purple\_500"

android:text="Fragment2" />

</RelativeLayout>

Fragement\_fragment1.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="@color/white"

tools:context=".fragment1">

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

<TextView

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:text="This is fragment1"

android:textColor="@color/black"

android:textSize="30dp" />

</RelativeLayout>

Fragment\_fragment2.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="@color/purple\_500"

tools:context=".fragment2">

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

<TextView

android:layout\_width="fill\_parent"

android:layout\_height="fill\_parent"

android:text="This is fragment2"

android:textColor="@color/white"

android:textSize="30dp"/>

</RelativeLayout>

Fragment1.java:

package com.example.co4p4fragments;

import android.os.Bundle;

import androidx.fragment.app.Fragment;

import android.view.LayoutInflater;

import android.view.View;

import android.view.ViewGroup;

/\*\*

\* A simple {@link Fragment} subclass.

\* Use the {@link fragment1#newInstance} factory method to

\* create an instance of this fragment.

\*/

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\_fragment1, container, false);

return view;

}

}

Fragment2.xml:

package com.example.co4p4fragments;

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\_fragment2, container, false);

return view;

}

}

MainActivity.java:

package com.example.co4p4fragments;

import androidx.appcompat.app.AppCompatActivity;

import androidx.fragment.app.Fragment;

import androidx.fragment.app.FragmentManager;

import androidx.fragment.app.FragmentTransaction;

import androidx.fragment.app.FragmentTransitionImpl;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

public class MainActivity extends AppCompatActivity {

Button firstfrag,secfrag;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

firstfrag=findViewById(R.id.button1);

secfrag=findViewById(R.id.button2);

firstfrag.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v)

{

replacefragment(new fragment1());

}

});

firstfrag.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v)

{

replacefragment(new fragment1());

}

});

secfrag.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

replacefragment(new fragment2());

}

});

}

private void replacefragment(Fragment fragment)

{

FragmentManager fragmentManager=getSupportFragmentManager();

FragmentTransaction fragmentTransaction=fragmentManager.beginTransaction();

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

fragmentTransaction.commit();

}

}