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**Batch & Roll:** A3-63

**Experiment No.5**

**Title:** To design an application using fragments.

MainActivity.java

package com.example.fep3;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

public class MainActivity extends AppCompatActivity {

Button b1,b2;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

b1 = findViewById(R.id.btn1);

b2 = findViewById(R.id.btn2);

b1.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

getSupportFragmentManager().beginTransaction().add(R.id.containers, new Fragment1()).commit();

}

});

b2.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

getSupportFragmentManager().beginTransaction().add(R.id.containers, new Fragment2()).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">

<TextView

android:id="@+id/textView2"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Fragments Application"

android:textSize="20sp"

app:layout\_constraintBottom\_toTopOf="@+id/btn1"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent" />

<Button

android:id="@+id/btn1"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginStart="64dp"

android:layout\_marginTop="89dp"

android:layout\_marginEnd="253dp"

android:text="Fragment 1"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent" />

<Button

android:id="@+id/btn2"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginStart="104dp"

android:layout\_marginTop="89dp"

android:layout\_marginEnd="55dp"

android:text="fragment 2"

app:layout\_constraintBottom\_toTopOf="@+id/containers"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.555"

app:layout\_constraintStart\_toEndOf="@+id/btn1"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.035" />

<FrameLayout

android:id="@+id/containers"

android:layout\_width="match\_parent"

android:layout\_height="550dp"

android:layout\_marginStart="1dp"

android:layout\_marginTop="1dp"

android:layout\_marginEnd="1dp"

android:layout\_marginBottom="1dp"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.0"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toBottomOf="@+id/btn1"

app:layout\_constraintVertical\_bias="0.634">

</FrameLayout>

</androidx.constraintlayout.widget.ConstraintLayout>

Fragment1.java

package com.example.fep3;

import android.app.Activity;

import android.content.Intent;

import android.media.Image;

import android.os.Bundle;

import androidx.fragment.app.Fragment;

import android.view.LayoutInflater;

import android.view.View;

import android.view.ViewGroup;

import android.widget.CheckBox;

import android.widget.EditText;

import android.widget.ImageButton;

public class Fragment1 extends Fragment {

Activity referenceActivity;

View parentHolder;

EditText name;

CheckBox ch;

ImageButton b1;

public Fragment1() {

// Required empty public constructor

}

@Override

public void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

}

@Override

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

referenceActivity = getActivity();

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

name = (EditText) parentHolder.findViewById(R.id.nameOfUser);

ch = (CheckBox) parentHolder.findViewById(R.id.checkBox);

b1 = (ImageButton) parentHolder.findViewById(R.id.imageButton);

b1.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

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

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

String lang = "";

if (ch.isChecked()){

lang = "Java";

}

i.putExtra("name",names);

i.putExtra("lang",lang);

startActivity(i);

}

});

// Inflate the layout for this fragment

return parentHolder;

}

}

Fragment\_1.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:layout\_editor\_absoluteX="-7dp"

tools:layout\_editor\_absoluteY="136dp">

<CheckBox

android:id="@+id/checkBox"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginStart="62dp"

android:layout\_marginTop="44dp"

android:layout\_marginEnd="197dp"

android:text="Do you know Java?"

android:textSize="20sp"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.134"

app:layout\_constraintStart\_toStartOf="parent"

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

<EditText

android:id="@+id/nameOfUser"

android:layout\_width="150dp"

android:layout\_height="wrap\_content"

android:layout\_marginStart="109dp"

android:layout\_marginTop="180dp"

android:layout\_marginEnd="162dp"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.547"

app:layout\_constraintStart\_toEndOf="@+id/nameText"

app:layout\_constraintTop\_toTopOf="parent" />

<TextView

android:id="@+id/nameText"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginStart="62dp"

android:layout\_marginTop="188dp"

android:layout\_marginEnd="291dp"

android:text="Name"

android:textSize="20sp"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.0"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent" />

<ImageButton

android:id="@+id/imageButton"

android:layout\_width="84dp"

android:layout\_height="67dp"

android:layout\_marginStart="175dp"

android:layout\_marginTop="44dp"

android:layout\_marginEnd="180dp"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.678"

app:layout\_constraintStart\_toStartOf="parent"

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

app:srcCompat="@android:drawable/btn\_star\_big\_on" />

</androidx.constraintlayout.widget.ConstraintLayout>

FragOnePass.java

package com.example.fep3;

import androidx.appcompat.app.AppCompatActivity;

import android.annotation.SuppressLint;

import android.content.Intent;

import android.os.Bundle;

import android.widget.TextView;

public class FragOnePass extends AppCompatActivity {

TextView t1;

@SuppressLint("MissingInflatedId")

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_frag\_one\_pass);

t1 = findViewById(R.id.result);

Intent i = getIntent();

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

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

t1.setText(name+" "+lang);

}

}

Activity\_frag\_one\_pass.xml

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

<FrameLayout 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=".FragOnePass">

<TextView

android:id="@+id/result"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginLeft="170dp"

android:layout\_marginTop="300dp"

android:text="TextView"

android:textSize="20sp" />

</FrameLayout>

Fragment2.java

package com.example.fep3;

import android.app.Activity;

import android.content.Intent;

import android.os.Bundle;

import androidx.fragment.app.Fragment;

import android.view.LayoutInflater;

import android.view.View;

import android.view.ViewGroup;

import android.widget.Button;

import android.widget.RadioButton;

import android.widget.RadioGroup;

public class Fragment2 extends Fragment {

Button b1;

Activity referenceActivity1;

View parentHolder1;

public Fragment2() {

// Required empty public constructor

}

@Override

public void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

}

@Override

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

referenceActivity1 = getActivity();

parentHolder1 = inflater.inflate(R.layout.fragment\_2, container, false);

b1 = (Button) parentHolder1.findViewById(R.id.button1);

b1.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

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

startActivity(i);

}

});

// Inflate the layout for this fragment

return parentHolder1;

}

}

Fragment\_2.xml

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

<LinearLayout 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:id="@+id/ll"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:orientation="vertical"

tools:context=".Fragment2">

<TextView

android:layout\_marginTop="50dp"

android:id="@+id/textView"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="Gender"

android:textSize="30sp" />

<RadioGroup

android:id="@+id/rg"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent">

<RadioButton

android:id="@+id/male"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="Male" />

<RadioButton

android:id="@+id/female"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="Female" />

<Button

android:id="@+id/button1"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="Button" />

</RadioGroup>

</LinearLayout>

FragTwoPass.java

package com.example.fep3;

import androidx.appcompat.app.AppCompatActivity;

import android.annotation.SuppressLint;

import android.content.Intent;

import android.os.Bundle;

import android.widget.TextView;

public class FragTwoPass extends AppCompatActivity {

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_frag\_two\_pass);

}

}

Activity\_frag\_two\_pass.xml

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

<FrameLayout 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=".FragTwoPass">

<TextView

android:id="@+id/t1"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Welcome" />

<TextView

android:id="@+id/t2"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginLeft="150dp"

android:text="Here :)" />

<ImageView

android:id="@+id/imageView2"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

app:srcCompat="@drawable/abc" />

</FrameLayout>

Output:-

 

 

