
Experiment No.: 16**Aim**

Develop application using Fragments

CO4

Implement activities with dialogs, spinner, fragments and navigation drawer by applying themes

Procedure

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:background="@color/purple_700"
    tools:context=".MainActivity">

    <Button

        android:id="@+id/btn2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginTop="40dp"
        android:layout_marginEnd="40dp"
        android:text="Fragment-two"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.5"
        app:layout_constraintStart_toEndOf="@+id/btn1"
```

```
        app:layout_constraintTop_toTopOf="parent" />
<Button
    android:id="@+id/btn1"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginTop="40dp"
    android:layout_marginEnd="16dp"
    android:text="Fragment-one"
    app:layout_constraintEnd_toStartOf="@+id/btn2"
    app:layout_constraintHorizontal_bias="0.5"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent" />
<FrameLayout
    android:id="@+id/frid"
    android:layout_width="409dp"
    android:layout_height="629dp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/btn2">
</FrameLayout>
</androidx.constraintlayout.widget.ConstraintLayout>
```

fragment_first.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=".FirstFragment">
<TextView
    android:id="@+id/tvfrag"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="First fragment"
    android:textColor="#5E0000"
    android:textSize="36dp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.5"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

fragment_second.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=".SecondFragment">
    <TextView
        android:id="@+id/secondtv"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Second Fragment"
        android:textColor="#001165"
```

```
        android:textSize="36dp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.5"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

MainActivity.java

```
package com.example.fragment;

import androidx.appcompat.app.AppCompatActivity;
import androidx.fragment.app.Fragment;
import androidx.fragment.app.FragmentManager;
import androidx.fragment.app.FragmentTransaction;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;

public class MainActivity extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        Button btn1= (Button) findViewById(R.id.btn1);
        Button btn2= (Button) findViewById(R.id.btn2);
        btn1.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                loadFragment(new FirstFragment());
            }
        })
    }
}
```

```
});  
btn2.setOnClickListener(new View.OnClickListener() {  
    @Override  
    public void onClick(View view) {  
        loadFragment(new SecondFragment());  
    }  
});  
}  
private void loadFragment(Fragment f) {  
    FragmentManager fm = getSupportFragmentManager();  
    FragmentTransaction ft = fm.beginTransaction();  
    ft.replace(R.id.frid,f);  
    ft.commit();  
}  
}
```

FirstFragment.java

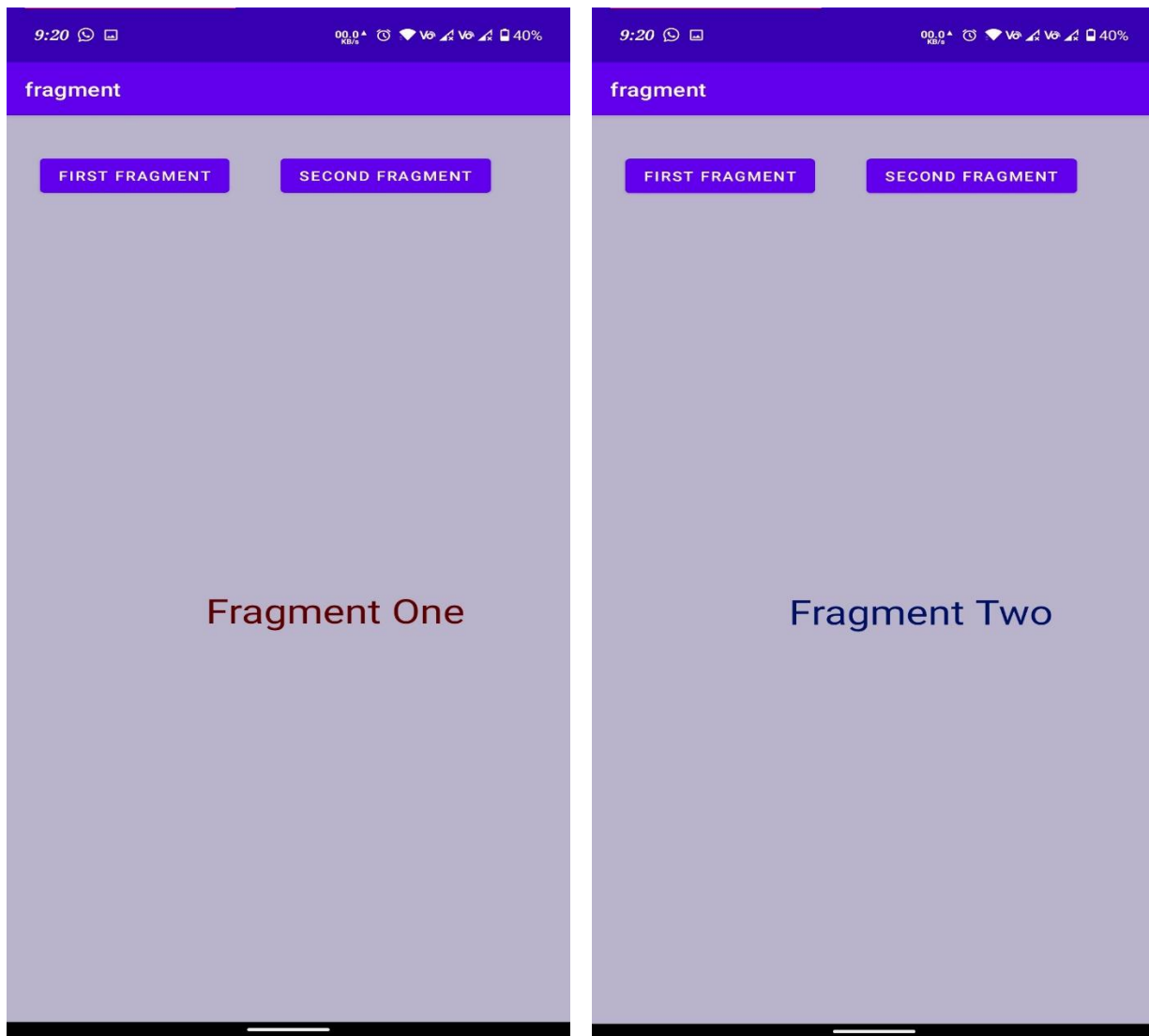
```
package com.example.fragment;  
import android.os.Bundle;  
import androidx.fragment.app.Fragment;  
import android.view.LayoutInflater;  
import android.view.View;  
import android.view.ViewGroup;  
public class FirstFragment extends Fragment {  
    View view;  
    @Override  
    public View onCreateView(LayoutInflater inflater, ViewGroup container,  
        Bundle savedInstanceState) {  
        // Inflate the layout for this fragment
```

```
        return view = inflater.inflate(R.layout.fragment_first, container, false);  
    }  
}
```

SecondFragment.java

```
package com.example.fragment;  
  
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 {  
    View view;  
  
    @Override  
    public View onCreateView(LayoutInflater inflater, ViewGroup container,  
                             Bundle savedInstanceState) {  
        // Inflate the layout for this fragment  
        return view = inflater.inflate(R.layout.fragment_second, container, false);  
    }  
}
```

Output Screenshot



Result

The program was executed and the result was successfully obtained. Thus CO4 was obtained.

Experiment No.: 17