

java\tp2ex3.java

```
1 public class MainActivity extends AppCompatActivity {
2     @Override
3     protected void onCreate(Bundle savedInstanceState) {
4         super.onCreate(savedInstanceState);
5         setContentView(R.layout.activity_main);
6         // Add Fragment1 to the activity
7         FragmentManager fragmentManager = getSupportFragmentManager();
8         FragmentTransaction fragmentTransaction = fragmentManager.beginTransaction();
9         fragmentTransaction.add(R.id.fragment_container, new Fragment1());
10        fragmentTransaction.commit();
11    }
12 }
13
14 <?xml version="1.0" encoding="utf-8"?>
15 <FrameLayout xmlns:android="http://schemas.android.com/apk/res/android"
16     android:id="@+id/fragment_container" android:layout_width="match_parent"
17     android:layout_height="match_parent" />
18
19 public class Fragment1 extends Fragment {
20     private EditText firstNameEditText, lastNameEditText;
21     public Fragment1() { /* Required empty public constructor */ }
22     @Override
23     public View onCreateView(LayoutInflater inflater, ViewGroup container,
24         Bundle savedInstanceState) {
25         // Inflate the layout for this fragment
```

```
25 View view = inflater.inflate(R.layout.fragment_1, container, false);
26 firstNameEditText = view.findViewById(R.id.editTextFirstName);
27 lastNameEditText = view.findViewById(R.id.editTextLastName);
28 Button submitButton = view.findViewById(R.id.buttonSubmit);
29 submitButton.setOnClickListener(new View.OnClickListener() {
30     @Override
31     public void onClick(View v) {
32         String firstName = firstNameEditText.getText().toString().trim();
33         String lastName = lastNameEditText.getText().toString().trim();
34         if(firstName.isEmpty() || lastName.isEmpty()){
35             Toast.makeText(getActivity(), "Please enter both first and last name",
Toast.LENGTH_SHORT).show();
36             return;
37         }
38         // Create Fragment2 instance
39         Fragment2 fragment2 = new Fragment2();
40         // Create bundle and put data
41         Bundle bundle = new Bundle();
42         bundle.putString("firstName", firstName);
43         bundle.putString("lastName", lastName);
44         fragment2.setArguments(bundle);
45         // Replace Fragment1 with Fragment2
46         FragmentManager fragmentManager = getActivity().getSupportFragmentManager();
47         FragmentTransaction fragmentTransaction = fragmentManager.beginTransaction();
48         fragmentTransaction.replace(R.id.fragment_container, fragment2);
49         fragmentTransaction.addToBackStack(null); // Optional: allows back navigation
50         fragmentTransaction.commit();
51     }
52 });
```

```
return view;
```

```
}
```

```
}
```

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

```
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"  
    android:layout_width="match_parent" android:layout_height="match_parent"  
    android:orientation="vertical" android:padding="16dp">
```

```
    <TextView android:layout_width="wrap_content" android:layout_height="wrap_content"  
        android:text="This is the first Fragment" android:textSize="20sp"  
        android:layout_gravity="center_horizontal" android:layout_marginBottom="20dp"/>
```

```
    <EditText android:id="@+id/editTextFirstName" android:layout_width="match_parent"  
        android:layout_height="wrap_content" android:hint="First Name" android:layout_marginBottom="10dp"/>
```

```
    <EditText android:id="@+id/editTextLastName" android:layout_width="match_parent"  
        android:layout_height="wrap_content" android:hint="Last Name" android:layout_marginBottom="20dp"/>
```

```
    <Button android:id="@+id/buttonSubmit" android:layout_width="wrap_content"  
        android:layout_height="wrap_content" android:text="Submit"  
        android:layout_gravity="center_horizontal"/>
```

```
</LinearLayout>
```

```
public class Fragment2 extends Fragment {
```

```
    private TextView firstNameTextView, lastNameTextView;
```

```
    public Fragment2() { /* Required empty public constructor */ }
```

```
    @Override
```

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

```
        // Inflate the layout for this fragment
```

```
        View view = inflater.inflate(R.layout.fragment_2, container, false);
```

```

74     TextView titleTextView = view.findViewById(R.id.textViewTitle);
75     firstNameTextView = view.findViewById(R.id.textViewFirstName);
76     lastNameTextView = view.findViewById(R.id.textViewLastName);
77     // Get data from bundle
78     Bundle bundle = getArguments();
79     if (bundle != null) {
80         String firstName = bundle.getString("firstName", "");
81         String lastName = bundle.getString("lastName", "");
82         firstNameTextView.setText("First Name: " + firstName);
83         lastNameTextView.setText("Last Name: " + lastName);
84     }
85     return view;
86 }
87 }

```

```

88
89 <?xml version="1.0" encoding="utf-8"?>
90 <LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
91     android:layout_width="match_parent" android:layout_height="match_parent"
92     android:orientation="vertical" android:padding="16dp">
93     <TextView android:id="@+id/textViewTitle" android:layout_width="wrap_content"
94         android:layout_height="wrap_content" android:text="This is the second Fragment"
95         android:textSize="20sp" android:layout_gravity="center_horizontal"
96         android:layout_marginBottom="20dp"/>
97     <TextView android:id="@+id/textViewFirstName" android:layout_width="wrap_content"
98         android:layout_height="wrap_content" android:text="First Name: " android:textSize="16sp"
99         android:layout_marginBottom="10dp"/>
100     <TextView android:id="@+id/textViewLastName" android:layout_width="wrap_content"
101         android:layout_height="wrap_content" android:text="Last Name: " android:textSize="16sp"/>
102 </LinearLayout>

```