java\tp3ex2.java

```
public class MainActivity extends AppCompatActivity implements Fragment1.OnNameSendListener {
        TextView textView:
        @Override
        protected void onCreate(Bundle savedInstanceState) {
            super.onCreate(savedInstanceState);
            setContentView(R.layout.activity main);
            textView = findViewById(R.id.textView);
        // This is triggered from Fragment1
10
        @Override
        public void onNameSend(String name) {
11
            textView.setText("Your name is " + name);
12
13
14
15
    <?xml version="1.0" encoding="utf-8"?>
16
17
    <LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
    android:layout width="match parent" android:layout height="match parent"
    android:orientation="vertical" android:padding="20dp">
18
        <TextView android:id="@+id/textView" android:text="Enter your name"
    android:layout width="wrap content" android:layout height="wrap content" android:textSize="20sp"
    android:layout marginBottom="20dp"/>
        <fragment android:id="@+id/fragment1" android:name="com.example.tp3 ex2.Fragment1"</pre>
19
    android:layout width="match parent" android:layout height="wrap content" />
    </LinearLavout>
20
21
22
```

```
public class Fragment1 extends Fragment {
23
24
        EditText editText;
25
        Button showButton:
        OnNameSendListener listener;
26
        public interface OnNameSendListener {
27
28
            void onNameSend(String name);
29
        @Override
30
        public void onAttach(@NonNull Context context) {
31
32
            super.onAttach(context);
33
            if (context instanceof OnNameSendListener) {
34
                listener = (OnNameSendListener) context;
35
            } else {
                throw new RuntimeException(context.toString() + " must implement OnNameSendListener");
36
            }
37
38
39
        @Override
40
        public View onCreateView(LayoutInflater inflater, ViewGroup container,
                                  Bundle savedInstanceState) {
41
42
            View view = inflater.inflate(R.layout.fragment1, container, false);
            editText = view.findViewById(R.id.editTextName);
43
            showButton = view.findViewById(R.id.buttonShow);
44
            showButton.setOnClickListener(v -> {
45
                String name = editText.getText().toString().trim();
46
47
                if(name.isEmpty()){
                  Toast.makeText(getActivity(), "Please enter a name", Toast.LENGTH SHORT).show();
48
                  return:
49
50
```

```
51
                listener.onNameSend(name);
52
            });
            return view;
53
54
55
56
    <?xml version="1.0" encoding="utf-8"?>
57
58
    <LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
    android:layout width="match parent" android:layout height="wrap content"
    android:orientation="vertical" android:padding="16dp">
      <EditText android:id="@+id/editTextName" android:layout width="match parent"
59
    android:layout height="wrap content" android:hint="Enter name" />
      <Button android:id="@+id/buttonShow" android:layout width="wrap content"</pre>
60
    android:layout_height="wrap_content" android:text="Show" android:layout marginTop="10dp"/>
    </LinearLayout>
61
62
```