



# Android Class

**#Android Notes**

# Intent In Android



# Activity

- An Android activity is a single screen of the Android app's user interface.
- In that way an Android activity is very similar to windows in a desktop application.
- An Android app may contain one or more screens.



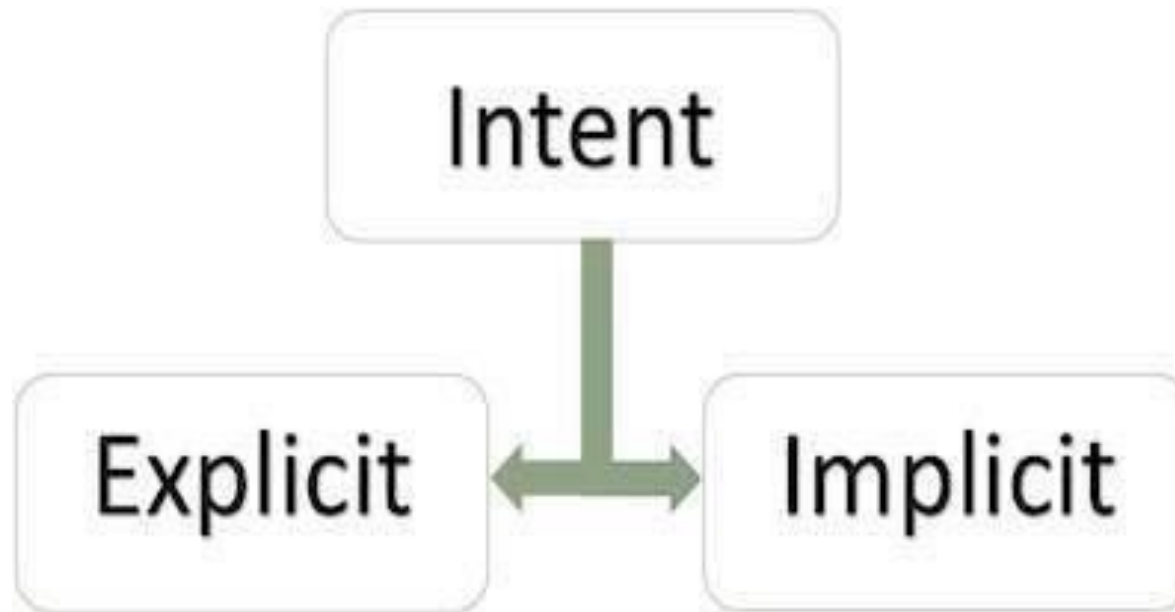
# What is Intent?

- Intent basically used to provide navigation from one activity to other activity.
- Intents allow you to interact with components from the same applications as well other applications.



# Types Of Intent

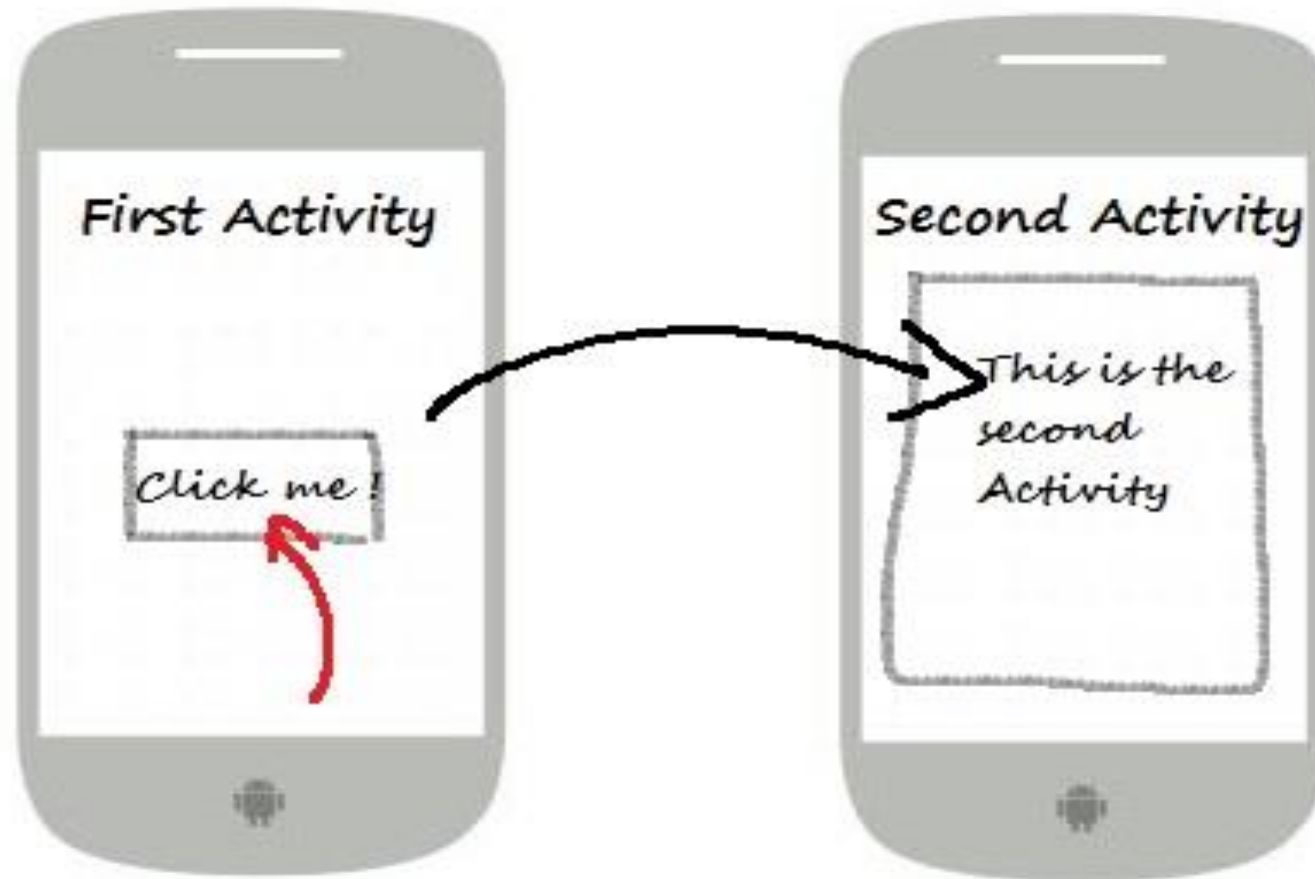
- There are two types of intent:



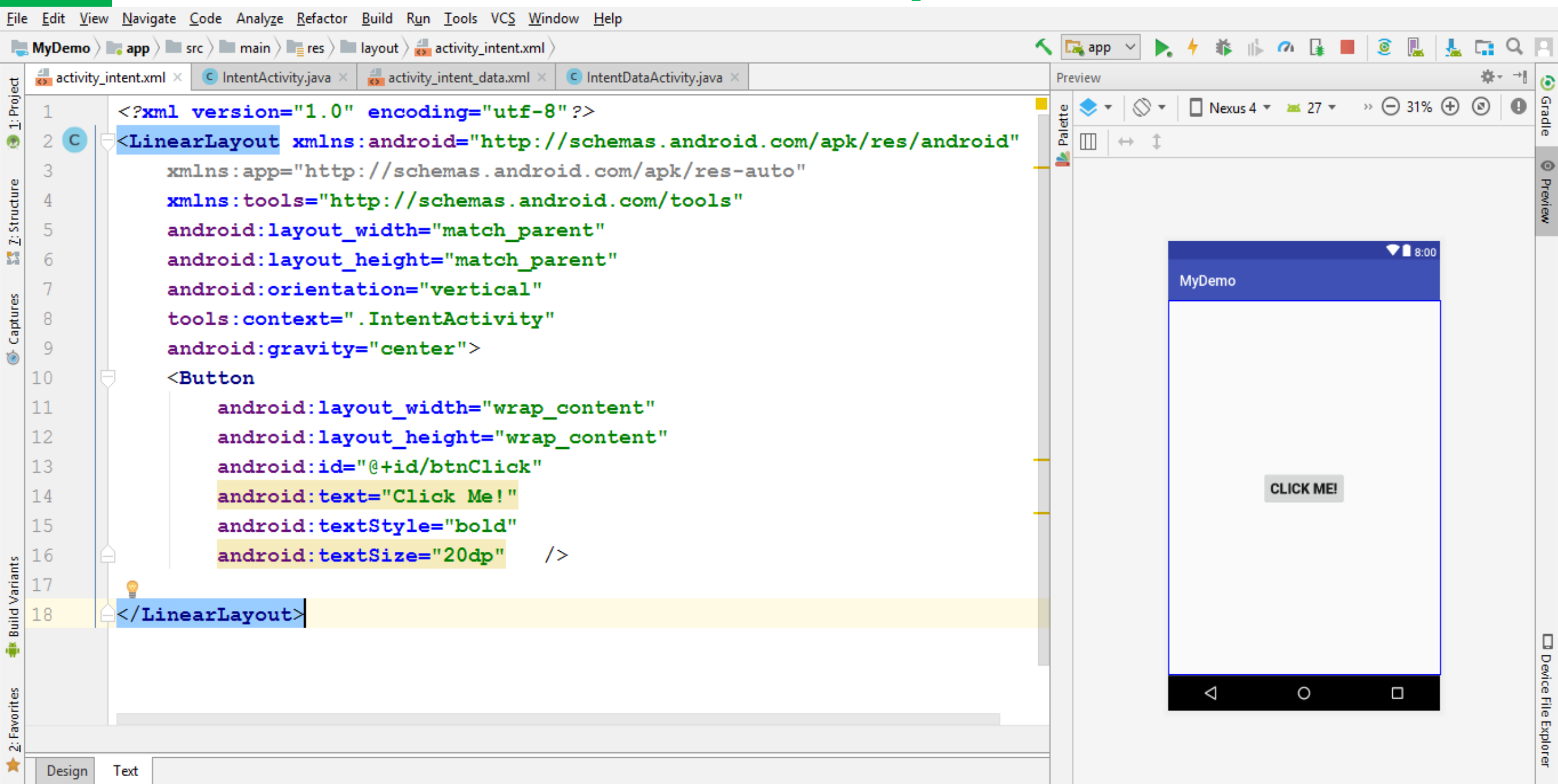
# Explicit Intent

- Explicit Intents are used to connect the application internally.
- Explicit Intents are also used to pass information from one activity to another activity.





# Screenshot activity\_intent.xml





# Screenshot activity\_intent\_data.xml

The screenshot displays the Android Studio IDE with the following components:

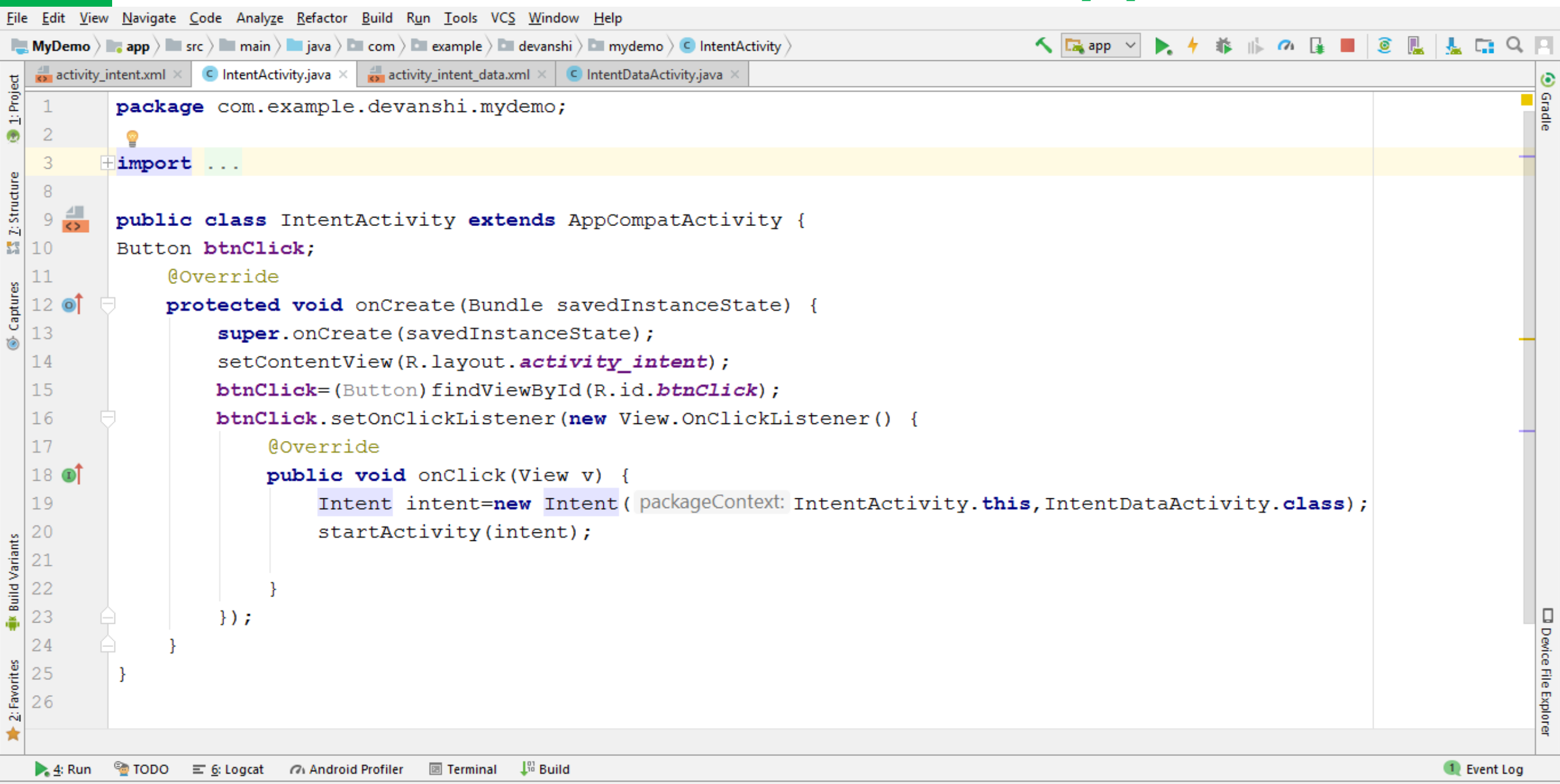
- Menu Bar:** File, Edit, View, Navigate, Code, Analyze, Refactor, Build, Run, Tools, VCS, Window, Help.
- Toolbar:** Includes icons for running, debugging, and other development actions.
- Project Explorer (Left):** Shows the project structure with folders like 'app', 'src', 'main', 'res', and 'layout'. The file 'activity\_intent\_data.xml' is selected.
- Code Editor (Center):** Contains the XML code for 'activity\_intent\_data.xml'. The code defines a `LinearLayout` with a `TextView` child. The `TextView` has attributes for ID, width, height, gravity, text, text color, text size, and text style.
- Preview (Right):** Shows a visual representation of the layout on a Nexus 4 device. The device screen displays the text 'Welcome' in a large, bold, black font, centered vertically and horizontally. The status bar at the top shows 'MyDemo' and the time '8:00'.

```
<?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:layout_width="match_parent"
    android:layout_height="match_parent"
    android:gravity="center"
    android:orientation="vertical"
    tools:context=".IntentDataActivity">

    <TextView
        android:id="@+id/tvTitle"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:gravity="center"
        android:text="Welcome"
        android:textColor="@android:color/black"
        android:textSize="40dp"
        android:textStyle="bold" />

</LinearLayout>
```

# Screenshot IntentActivity.java



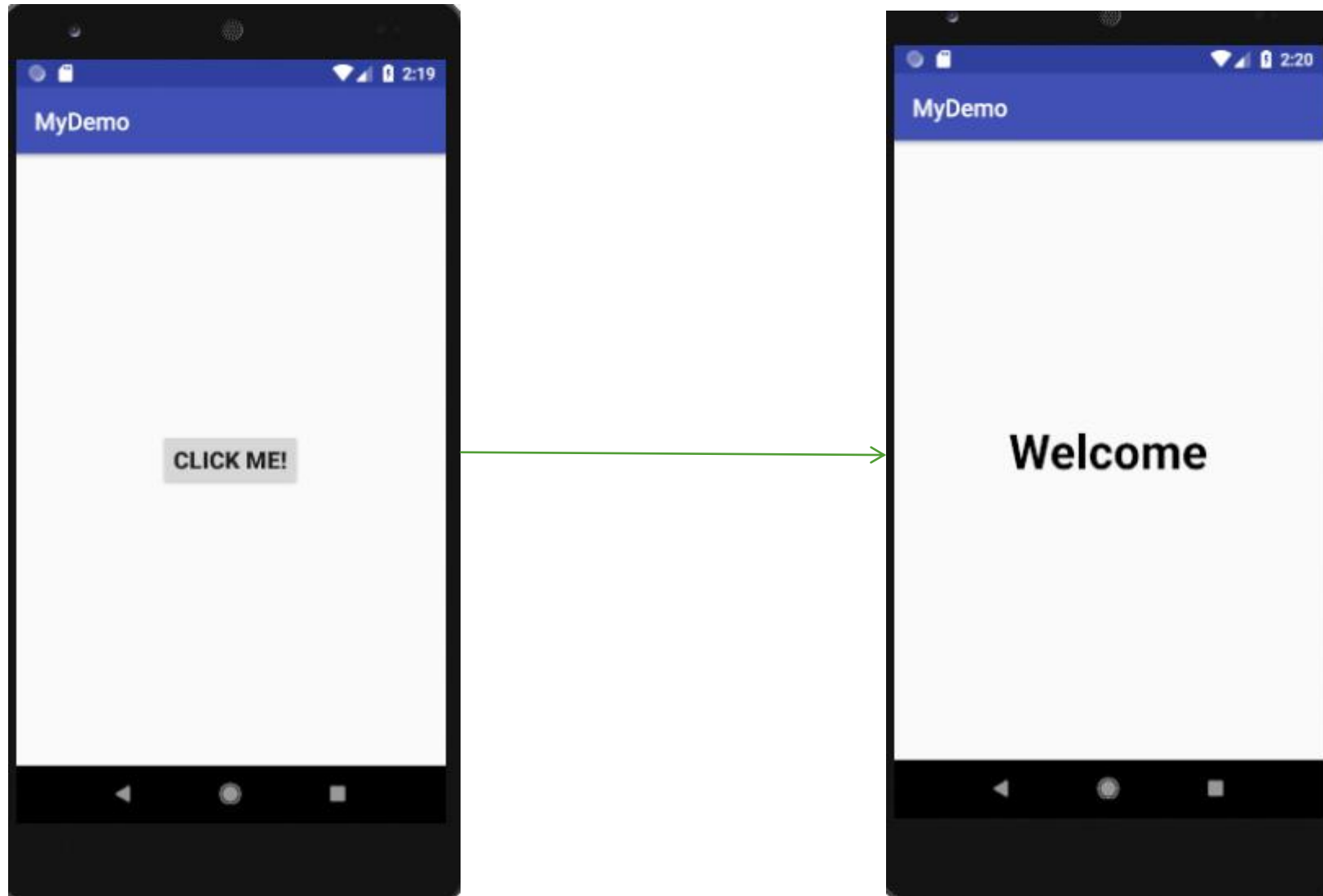
# Screenshot IntentDataActivity.java

The screenshot shows an IDE interface with the following components:

- Menu Bar:** File, Edit, View, Navigate, Code, Analyze, Refactor, Build, Run, Tools, VCS, Window, Help.
- Breadcrumb:** MyDemo > app > src > main > java > com > example > devanshi > mydemo > IntentDataActivity.
- Toolbar:** Includes icons for back, forward, run, debug, and other IDE functions.
- Tab Bar:** Shows open files: activity\_intent.xml, IntentActivity.java, activity\_intent\_data.xml, and IntentDataActivity.java (selected).
- Editor:** Contains the following Java code:

```
1 package com.example.devanshi.mydemo;
2
3 import ...
4
5
6 public class IntentDataActivity extends AppCompatActivity {
7
8     @Override
9     protected void onCreate(Bundle savedInstanceState) {
10         super.onCreate(savedInstanceState);
11         setContentView(R.layout.activity_intent_data);
12     }
13 }
14
```
- Left Sidebar:** Contains icons for Project, Structure, Captures, and Build Variants.
- Right Sidebar:** Contains icons for Gradle and Device File Explorer.
- Bottom Bar:** Contains icons for Run, TODO, Logcat, Android Profiler, Terminal, and Build.
- Status Bar:** Shows 'Event Log'.

# Output

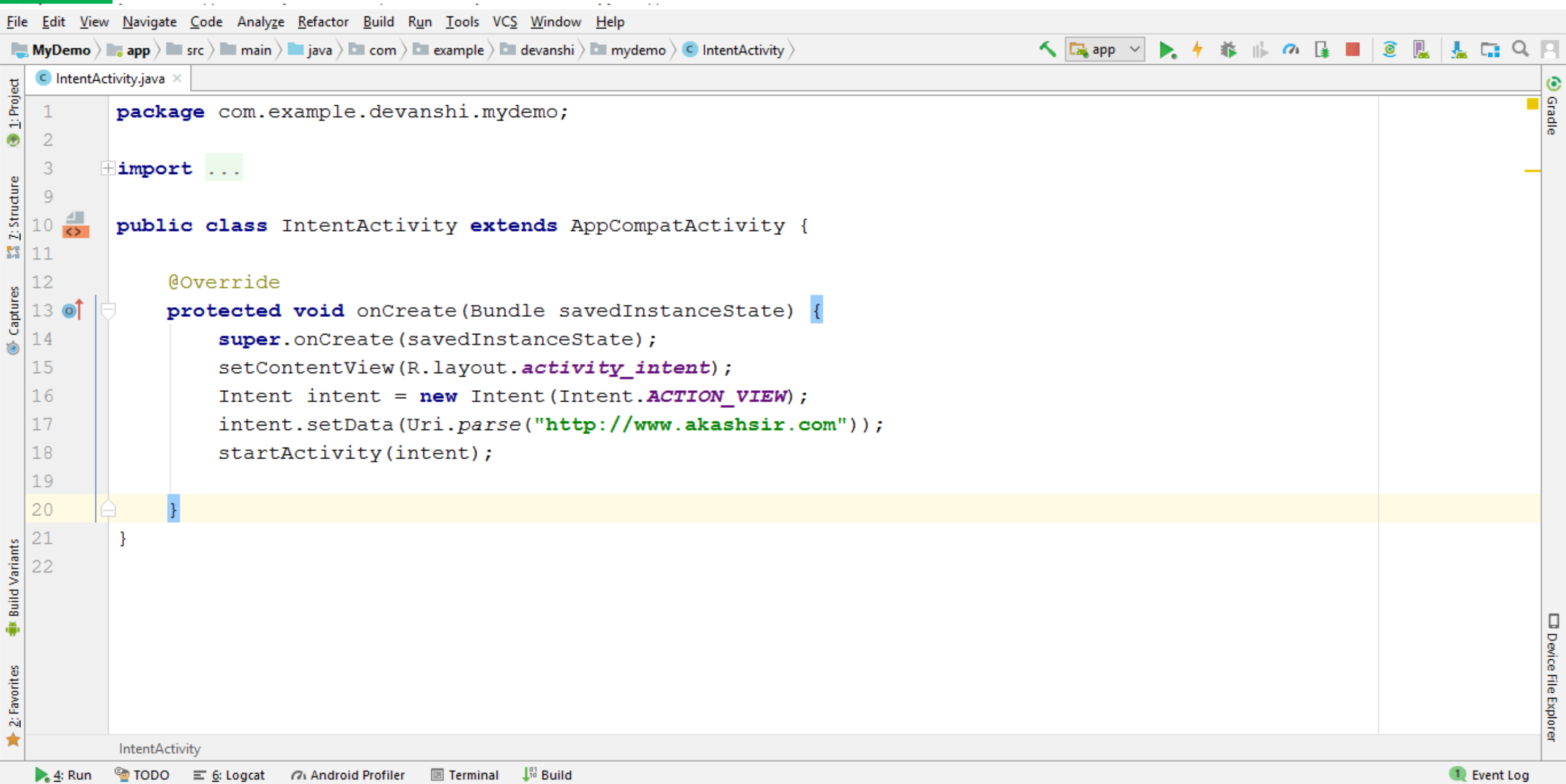


# Implicit Intent

- Implicit Intent is something which is sent **from one activity to inbuilt android activity** in android.
- When we work with implicit intents, we generally specify the action which we want to perform and optionally some data required for that action.
- Data is typically expressed as a **Uri** which can represent an image in the gallery or any web page.



# Screenshot IntentActivity.java



# Output



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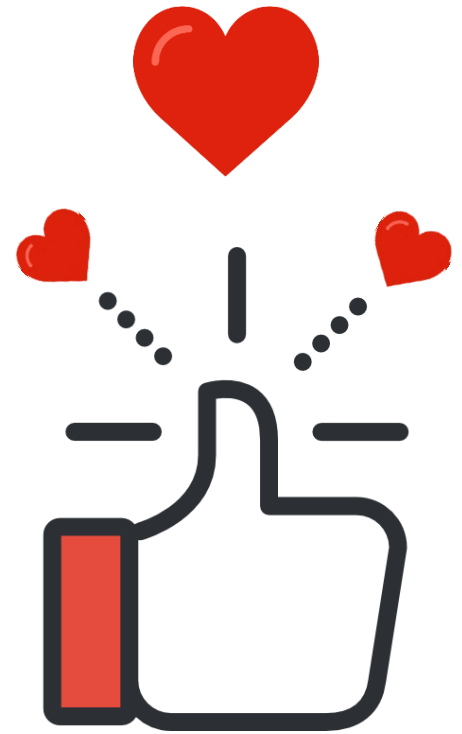
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