

Android Studio screenshot showing the code editor and preview window for an Android application.

The code editor displays the XML layout file `activity_main.xml`:

```
<androidx.constraintlayout.widget.ConstraintLayout>
    <androidx.constraintlayout.widget.Guideline
        android:layout_height="wrap_content"
        android:orientation="vertical"
        app:layout_constraintGuide_percent="0.3"/>
    <Button
        android:id="@+id/btnGuide"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Tombol Guideline Zaidannur Muzanni"
        app:layout_constraintTop_toBottomOf="@+id/tvCenter"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        android:layout_marginTop="16dp"/>
    <Button
        android:id="@+id/btn1"
        android:layout_width="0dp"
        android:layout_height="wrap_content"
        android:text="Button 1"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintEnd_toStartOf="@+id/btn2"
        app:layout_constraintTop_toBottomOf="@+id/btnGuide"
        app:layout_constraintHorizontal_chainStyle="spread_inside"/>
    <Button
        android:id="@+id/btn2"
        android:layout_width="0dp"
        android:layout_height="wrap_content"
        android:text="Button 2"
        app:layout_constraintStart_toEndOf="@+id/btn1"
        app:layout_constraintEnd_toEndOf="parent"/>
</androidx.constraintlayout.widget.ConstraintLayout>
```

The preview window shows a layout with three buttons. The top button is labeled "Tombol Guideline Zaidannur Muzanni". The bottom-left button is labeled "Button 1" and the bottom-right button is labeled "Button 2". A text view above the buttons contains the same text as the top button.

Bottom status bar:

- mobile-programming > app > src > main > res > layout > activity_main.xml
- 13:08
- LF
- UTF-8
- 4 spaces
- 01/10/2025

Android Studio screenshot showing the development environment for an Android application named "HelloWorldApp".

The left sidebar shows the project structure:

- app
- manifests
- com.example.helloworldapp

 - LayoutPracticeActivity
 - MainActivity

- res
- drawable
- layout
- mipmap
- values
- xml
- res (generated)

The right side shows the code editor for `activity_main.xml` and the preview window.

`activity_main.xml` content:

```
<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/tvHello"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Hello, Mobile Programming"
        android:textSize="20sp"
        android:textStyle="bold"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        android:layout_marginTop="32dp"/>

    <Button
        android:id="@+id	btnClick"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Klik Saya"
        app:layout_constraintTop_toBottomOf="@+id/tvHello"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        android:layout_marginTop="16dp"/>

    <ImageView
        android:id="@+id/imgLogo"
        ...>
```

The preview window shows a green Android icon with the text "Hello, Mobile Programming" and a button labeled "Klik Saya". The keyboard is visible at the bottom right.

Android Studio screenshot showing the code editor and the emulator.

The code editor displays the XML layout file `activity_main.xml`:

```
<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"

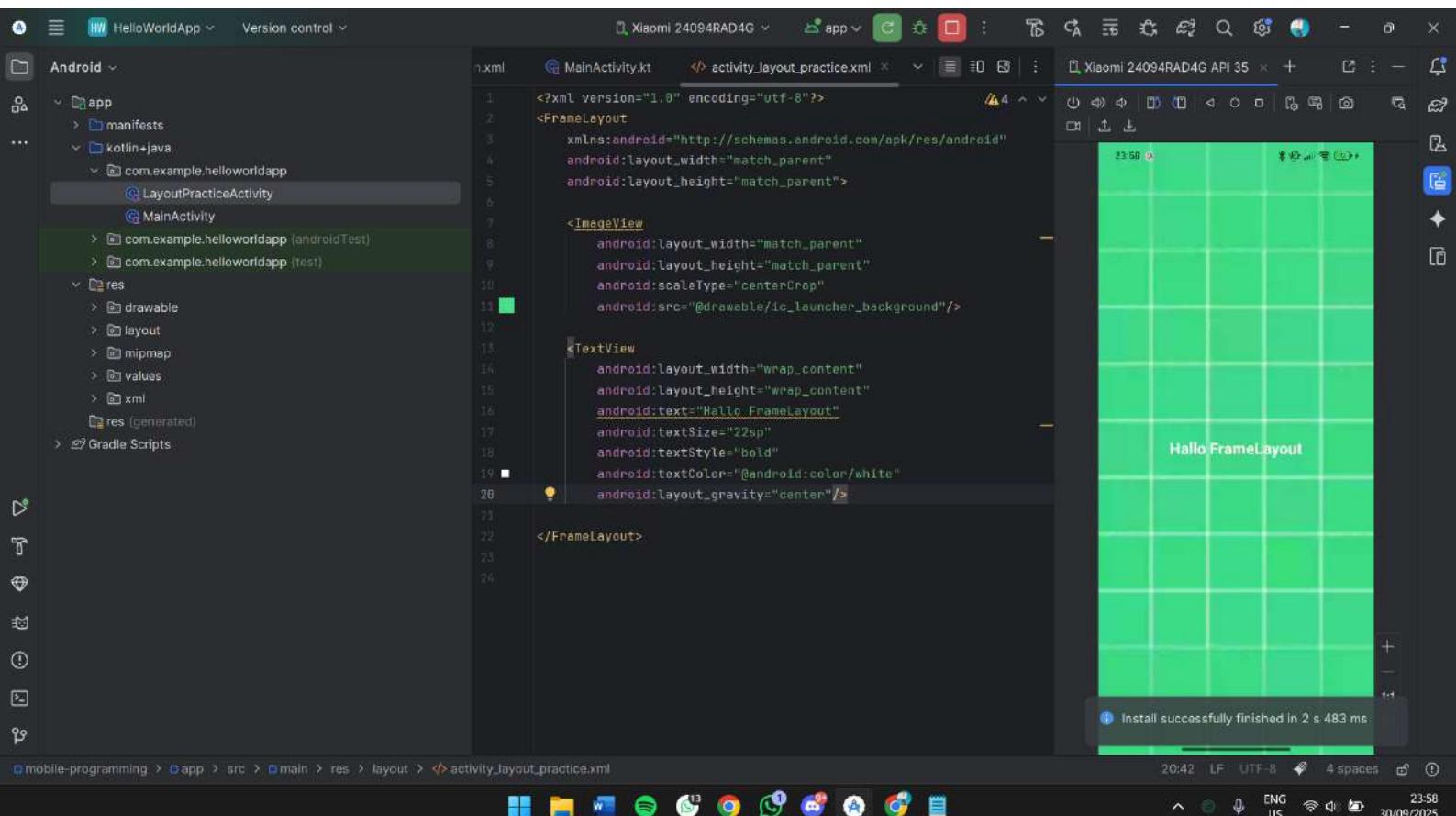
    <TextView
        android:id="@+id/tvHello"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Hallo, Mobile Programming"
        android:textSize="20sp"
        android:textStyle="bold"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        android:layout_marginTop="32dp"/>

    <Button
        android:id="@+id	btnClick"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Klik Saya"
        app:layout_constraintTop_toBottomOf="@+id/tvHello"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        android:layout_marginTop="16dp"/>

    <ImageView
        android:id="@+id/imgLogo"
        ...>
```

The right side shows the Android emulator running the application. The screen displays "Hallo, Mobile Programming" in bold text, a green Android logo, and a button labeled "Klik Saya". A text input field is present with the placeholder "Masukkan Nama Anda".

Bottom status bar: 12:50, 17:53, LF, UTF-8, 4 spaces, 01/10/2025.



The screenshot shows the Android Studio interface with the following details:

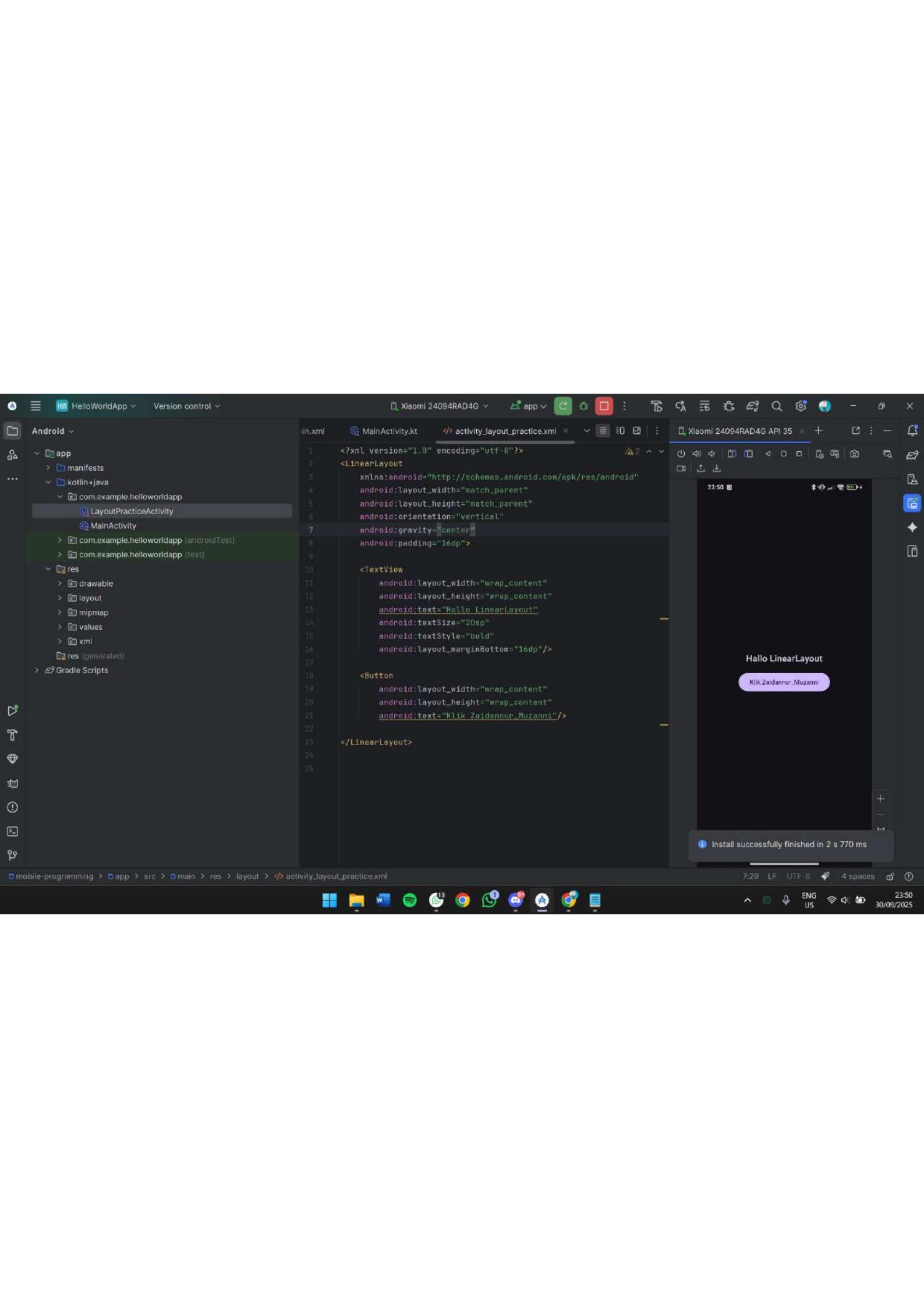
- Project Structure:** The left sidebar shows the project structure for "HelloWorldApp". It includes the `app` module with subfolders like `manifests`, `kotlin+java`, and `res`. The `activity` folder contains `MainActivity.kt` and `activity_layout_practice.xml`.
- Code Editor:** The main editor window displays the XML code for `activity_layout_practice.xml`. The code defines a `RelativeLayout` containing a `TextView` and a `Button`. The `TextView` has the text "Hello RelativeLayout". The `Button` has the text "Klik Zaidannur Muzanni".
- Preview Pane:** On the right, the design preview shows a blue rounded rectangle with the text "Hello RelativeLayout" and a button below it labeled "Klik Zaidannur Muzanni".
- Status Bar:** At the bottom, the status bar shows the path "mobile-programming > app > src > main > res > layout > activity_layout_practice.xml". It also displays system information: 19:45, LF, UTF-8, ENG US, 4 spaces, and the date 30/06/2025.

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:padding="16dp">

    <TextView
        android:id="@+id/tvRelative"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Hello RelativeLayout"
        android:textSize="20sp"
        android:textStyle="bold"
        android:layout_centerHorizontal="true"/>

    <Button
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Klik Zaidannur Muzanni"
        android:layout_below="@+id/tvRelative"
        android:layout_centerHorizontal="true"
        android:layout_marginTop="16dp"/>

</RelativeLayout>
```



The screenshot shows the Android Studio interface with the following details:

- Project Structure:** The left sidebar shows the project structure under "Android". It includes the "app" module with "manifests", "kotlin+java" (containing "LayoutPracticeActivity" and "MainActivity"), and "res" (containing "drawable", "layout", "mipmap", "values", "xml", and "res (generated)").
- Main Activity Layout:** The main code editor displays the XML layout file "activity_layout_practice.xml". The code defines a Linear Layout containing a Text View and a Button.

```
<?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:gravity="center"
    android:padding="16dp">

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Hello LinearLayout"
        android:textSize="20sp"
        android:textStyle="bold"
        android:layout_marginBottom="16dp"/>

    <Button
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Klik Zaidannur_Muzanni"/>

</LinearLayout>
```
- Preview Window:** On the right, the "Xiaomi 24094RAD4G API 35" preview window shows a purple rounded rectangle with the text "Hello LinearLayout" and a button labeled "Klik Zaidannur_Muzanni".
- Build Status:** A notification at the bottom right indicates "Install successfully finished in 2 s 770 ms".
- System Bar:** The bottom bar shows system icons for battery, signal, and time (23:50).