

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

- Project Structure:** The left sidebar shows the project structure with modules like "HelloWorldApp" and "app".
- Main Activity Code (MainActivity.kt):** The main code editor displays the following Java code:

```
import android.widget.Button
import android.widget.TextView
import android.content.Intent

class MainActivity : AppCompatActivity() {
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.activity_main)

        val tvMessage = findViewById<TextView>(R.id.tvMessage)
        val btnToggle = findViewById<Button>(R.id.btnToggle)

        var isHalo = true

        btnToggle.setOnClickListener {
            if (isHalo) {
                tvMessage.text = "Selamat Datang di Perkuliahan Mo"
                isHalo = false
            } else {
                tvMessage.text = "Halo Zeidan"
                isHalo = true
            }
        }
    }
}
```
- XML Layout (activity\_main.xml):** The XML layout file defines a simple UI with a button and a text 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">
    <TextView
        android:id="@+id/tvMessage"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"/>
    <Button
        android:id="@+id/btnToggle"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"/>

```
- Run Tab:** The top right shows the "Xiaomi 24094RAD4G" device selected for running the app.
- Logcat Tab:** The bottom right shows a log message: "Install successfully finished in 570 ms".
- Bottom Bar:** Shows the system tray with various icons and the date/time: "30/06/2025".

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

- Title Bar:** Shows "HelloWorldApp" and "Version control".
- Toolbar:** Includes icons for file operations, search, and navigation.
- Side Navigation Bar:** Shows "Android" and "Gradle Scripts".
- Main Area:**
  - Code Editor:** Displays the XML code for `activity_main.xml`.

```
<?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:id="@+id/main"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:gravity="center"
    android:orientation="vertical"
    tools:context=".MainActivity">

    <TextView
        android:id="@+id/tvMessage"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Halo Zaidan"
        android:layout_marginBottom="16dp"/>

    <Button
        android:id="@+id/btnToggle"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Klik Saya"
        android:layout_marginBottom="16dp"/>
</LinearLayout>
```
  - Preview Pane:** Shows a dark-themed preview of the layout with a yellow dot indicating the button's position. A tooltip "Halo Zaidan" appears near the text view, and a tooltip "Klik Saya" appears near the button.
- Bottom Status Bar:** Shows the path "mobile-programming > app > src > main > res > layout > activity\_main.xml", the time "24:45", and system status like "LF - UTF-8", "ENG US", and the date "30/06/2025".

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

- Title Bar:** Shows "HelloWorldApp" and "Version control".
- Side Navigation Bar:** Contains "Android", "app", and "Gradle Scripts".
- Main Area:**
  - Code Editor:** Displays the XML code for `activity_main.xml`.

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:id="@+id/main"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:gravity="center"
    android:orientation="vertical"
    tools:context=".MainActivity">

    <TextView
        android:id="@+id/tvMessage"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Hello Zaidan"
        android:layout_marginBottom="16dp"/>
</LinearLayout>
```
  - Preview Pane:** Shows a dark-themed preview of the layout with the text "Hello Zaidan" centered.
- Bottom Status Bar:** Shows the file path "mobile-programming > app > src > main > res > layout > activity\_main.xml", along with system status icons like battery level, signal strength, and date/time.