**HYBRID APPLICATION DEVELOPMENT LAB**

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Project: Android life cycle

package com.example.androidlifecycle;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

import android.widget.Toast;

public class MainActivity extends AppCompatActivity {

@Override

protected void onStart() {

super.onStart();

Toast.*makeText*(this, "ACTIVITY STARTED", Toast.*LENGTH\_SHORT*).show();

}

@Override

protected void onStop() {

super.onStop();

Toast.*makeText*(this, "ACTIVITY STOPPED", Toast.*LENGTH\_SHORT*).show();

}

@Override

protected void onDestroy() {

super.onDestroy();

Toast.*makeText*(this, "ACTIVITY DESTROYED ", Toast.*LENGTH\_SHORT*).show();

}

@Override

protected void onPause() {

super.onPause();

Toast.*makeText*(this, "ACTIVITY PAUSED", Toast.*LENGTH\_SHORT*).show();

}

@Override

protected void onResume() {

super.onResume();

Toast.*makeText*(this, "ACTIVITY RESUMED", Toast.*LENGTH\_SHORT*).show();

}

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.*activity\_main*);

Toast.*makeText*(this, "ACTIVITY CREATED", Toast.*LENGTH\_SHORT*).show();

}

}

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

<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:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Hello World!"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintLeft\_toLeftOf="parent"

app:layout\_constraintRight\_toRightOf="parent"

app:layout\_constraintTop\_toTopOf="parent" />

</androidx.constraintlayout.widget.ConstraintLayout>

package com.example.androidlifecycle;

import android.content.Context;

import androidx.test.platform.app.InstrumentationRegistry;

import androidx.test.ext.junit.runners.AndroidJUnit4;

import org.junit.Test;

import org.junit.runner.RunWith;

import static org.junit.Assert.\*;

*/\*\**

*\* Instrumented test, which will execute on an Android device.*

*\**

*\* @see <a href="http://d.android.com/tools/testing">Testing documentation</a>*

*\*/*

@RunWith(AndroidJUnit4.class)

public class ExampleInstrumentedTest {

@Test

public void useAppContext() {

*// Context of the app under test.*

Context appContext = InstrumentationRegistry.*getInstrumentation*().getTargetContext();

*assertEquals*("com.example.androidlifecycle", appContext.getPackageName());

}

}

package com.example.androidlifecycle;

import org.junit.Test;

import static org.junit.Assert.\*;

*/\*\**

*\* Example local unit test, which will execute on the development machine (host).*

*\**

*\* @see <a href="http://d.android.com/tools/testing">Testing documentation</a>*

*\*/*

public class ExampleUnitTest {

@Test

public void addition\_isCorrect() {

*assertEquals*(4, 2 + 2);

}

}

public final class BuildConfig {

public static final boolean *DEBUG* = Boolean.*parseBoolean*("true");

public static final String *APPLICATION\_ID* = "com.example.androidlifecycle";

public static final String *BUILD\_TYPE* = "debug";

public static final int *VERSION\_CODE* = 1;

public static final String *VERSION\_NAME* = "1.0";

}

Output

