Mainactivity.java

**package** com.example.a3button;  
  
**import** android.os.Bundle;  
**import** android.util.Log;  
**import** androidx.appcompat.app.AppCompatActivity;  
  
**public class** MainActivity **extends** AppCompatActivity {  
  
 **private static final** String ***TAG*** = **"ActivityLifecycle"**;  
  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_main***);  
 Log.*d*(***TAG***, **"onCreate() called"**);  
 }  
  
 @Override  
 **protected void** onStart() {  
 **super**.onStart();  
 Log.*d*(***TAG***, **"onStart() called"**);  
 }  
  
 @Override  
 **protected void** onResume() {  
 **super**.onResume();  
 Log.*d*(***TAG***, **"onResume() called"**);  
 }  
  
 @Override  
 **protected void** onPause() {  
 **super**.onPause();  
 Log.*d*(***TAG***, **"onPause() called"**);  
 }  
  
 @Override  
 **protected void** onStop() {  
 **super**.onStop();  
 Log.*d*(***TAG***, **"onStop() called"**);  
 }  
  
 @Override  
 **protected void** onRestart() {  
 **super**.onRestart();  
 Log.*d*(***TAG***, **"onRestart() called"**);  
 }  
  
 @Override  
 **protected void** onDestroy() {  
 **super**.onDestroy();  
 Log.*d*(***TAG***, **"onDestroy() called"**);  
 }  
}

activity.xml

*<?***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="Activity Life Cycle Demo"  
 android:textSize="18sp"**/>  
</**LinearLayout**>

Dependency

dependencies **{** *// AndroidX dependencies* implementation **'androidx.appcompat:appcompat:1.4.1'** implementation **'com.google.android.material:material:1.5.0'** implementation **'androidx.constraintlayout:constraintlayout:2.1.3'** implementation **'com.google.android.material:material:1.9.0'** *// Unit test dependencies* testImplementation **'junit:junit:4.13.2'** *// Android Instrumentation test dependencies* androidTestImplementation **'androidx.test.ext:junit:1.1.3'** androidTestImplementation **'androidx.test.espresso:espresso-core:3.4.0'  
}**