activity\_main.xml

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

<**android.support.constraint.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/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"** />

</**android.support.constraint.ConstraintLayout**>

MainActivity.java

**package** com.example.jevitha.a2\_activity\_lifecycle;

**import** android.support.v7.app.AppCompatActivity;

**import** android.os.Bundle;

**import** android.util.Log;

**import** android.view.View;

**import** android.widget.TextView;

**import** android.widget.Toast;

*// Test cases - Find the difference in callbacks when - 1. device rotation, 2. back button 3. Home button*

**public class** MainActivity **extends** AppCompatActivity {

@Override

**protected void** onCreate(Bundle savedInstanceState) {

**super**.onCreate(savedInstanceState);

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

Toast.*makeText*(**this**, **"onCreate invoked"**, Toast.***LENGTH\_SHORT***).show();

Log.*d*(**"MainActivity"**, **"onCreate invoked"**);

*// set the user interface layout for this activity*

*// the layout file is defined in the project res/layout/main\_activity.xml file*

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

}

**protected void** onStart() {

**super**.onStart();

Toast.*makeText*(**this**, **" onStart invoked"**, Toast.***LENGTH\_SHORT***).show();

Log.*d*(**"MainActivity"**, **" onStart invoked"**);

}

@Override

**protected void** onResume() {

**super**.onResume();

Toast.*makeText*(**this**, **" onResume invoked "**, Toast.***LENGTH\_SHORT***).show();

Log.*d*(**"MainActivity"**, **" onResume invoked"**);

}

@Override

**protected void** onPause() {

**super**.onPause();

Toast.*makeText*(**this**, **" onPause invoked "**, Toast.***LENGTH\_SHORT***).show();

Log.*d*(**"MainActivity"**, **" onPause invoked"**);

}

@Override

**protected void** onStop() {

**super**.onStop();

Toast.*makeText*(**this**, **" onStop invoked "**, Toast.***LENGTH\_SHORT***).show();

Log.*d*(**"MainActivity"**, **" onStop invoked"**);

}

@Override

**protected void** onRestart() {

**super**.onRestart();

Toast.*makeText*(**this**, **" onRestart invoked "**, Toast.***LENGTH\_SHORT***).show();

Log.*d*(**"MainActivity"**, **" onRestart invoked"**);

}

@Override

**protected void** onDestroy() {

**super**.onDestroy();

Toast.*makeText*(**this**, **"onDestroy invoked "**, Toast.***LENGTH\_SHORT***).show();

Log.*d*(**"MainActivity"**, **" onDestroy invoked"**);

}

}