
TUTORIAL 6

1. Start up Android Studio and open an existing project or create a new one. Try to use some of the following methods: `onCreate()`, `onStart()`, `onRestart()`, `onResume()`, `onPause()`, `onStop()`, `onDestroy()`.
2. Read the LogCat tutorial at <https://developer.android.com/studio/debug/am-logcat.html>, then run your app on an Android Virtual Device (AVD) or physical device and:
 - monitor the LogCat output of your device
 - note the different log levels: Verbose, Debug, Info, Warning, Error, Assert
 - filter messages by tag name
 - filter messages by level
3. Start overwriting the methods of your main Activity and issue Log messages* `onCreate()`, `onStart()`, `onRestart()`, `onResume()`, `onPause()`, `onStop()`, `onDestroy()`.

* You will need a Tag when issuing Log messages. What would be a suitable Tag?

Try using this method:

```
private static final String TAG = MyActivity.class.getSimpleName();
```

Why static? Why final? Why not use a literal name?

4. Start, restart, interrupt your app and monitor your logs in the LogCat.
5. Download and run the *lifecyc* project. Launch and play with the app so that all of the lifecycle methods are implemented (i.e. the corresponding messages are shown on the screen). (Please note you may get a sync Android SDK's message appear when you open the project due to the Android Studio SDK path being different to that stored in the project. It should find the required path on your system to the SDK so you should be able to just click OK and this will be updated and used by the project).