# Level 2 Questions

1. Explore this app: <https://github.com/marcellis/demorecyclerview> (in Java) and explain why recyclerview is called “recycler”
2. What is the difference of a staggered grid comparing to a normal grid?
3. What is the purpose of logcat?
4. What kind of gestures are available?
5. What was the predecessor of the recyclerview?
6. What is the difference between a Toast and Snackbar ?
7. What is the purpose of the existence of “optionals” in the Kotlin language?

**Answers**

1). Because it tries to reuse the same code to implement a lot of different views

2). staggered grid each item can be of a different size: <https://www.android4dev.com/how-to-use-recyclerview-with-staggeredgridlayoutmanager-android-kotlin/>

3). Logcat is a command-line tool that dumps a log of system messages, including stack traces when the device throws an error and messages that you have written from your app with the Log class. <https://developer.android.com/studio/command-line/logcat>

4). Tap, Click, Touch, Double Touch or Double Tap,Long Click, Long Press, or Long Touch, Drag, Swipe, or Fling, Pinch Open and Pinch Closed, Twirl and Tilt <https://www.lifewire.com/android-gestures-phone-or-tablet-1616916>

5). ListView

6). Toast is an easier version of popup and snackbar stays at bottom (and is more difficult)

7). To prevent null pointer exceptions and make code shorter and easier to prevent these exceptions