

# Task 2.1P

## Orienting Ourselves

### 1. Separation of Concerns

“Separation of Concerns” is a design principle where a program is split into ‘distinct sections... each addressing a separate concern’ or area of what the program does.

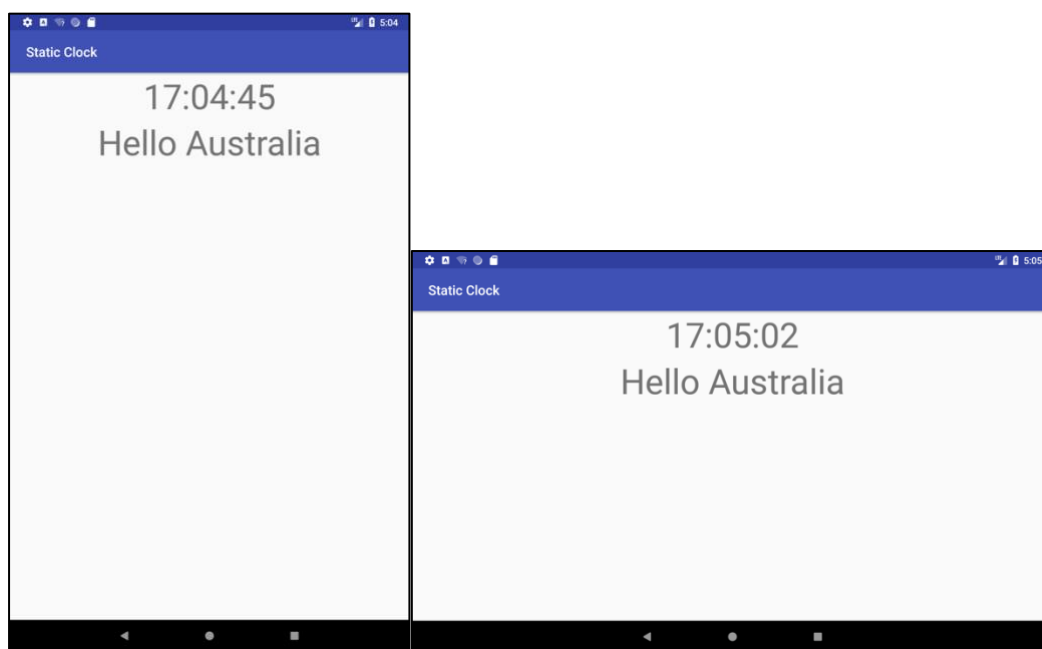
The principle behind this is to divide larger issues into smaller, distinct areas so that not only is the result more organised, but efficient as only necessary features are nearby others.

This is facilitated in Android App Development through Android Studio, where for each feature (or ‘concern’), there’s a separate area to house it. (refer Appendix I for details.)

Source: Wikipedia, [https://en.wikipedia.org/wiki/Separation\\_of\\_concerns](https://en.wikipedia.org/wiki/Separation_of_concerns) Accessed 22/08/18

### 2. Orientation State

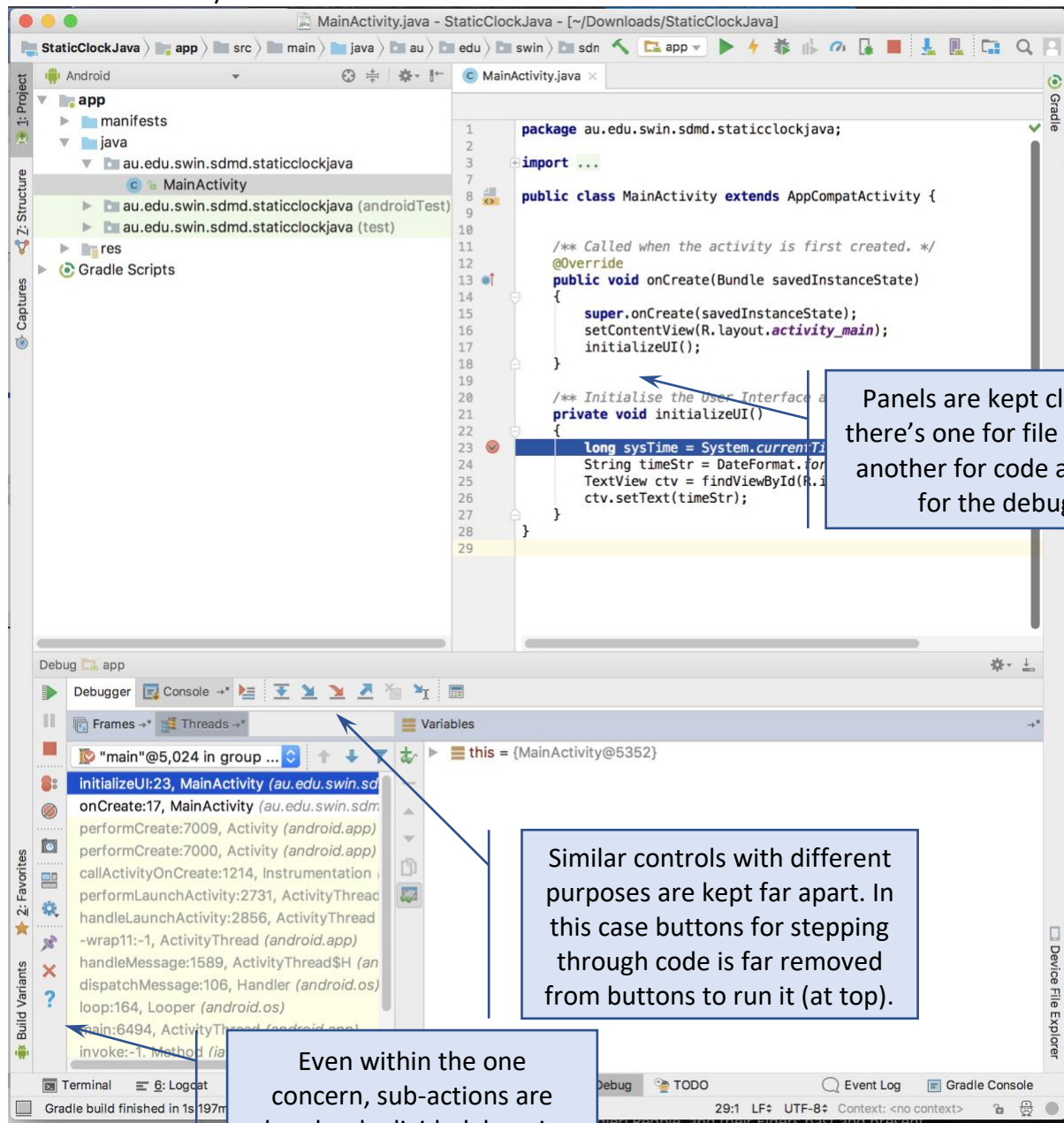
- a) The time information updates when the orientation changes as the textView displaying the time is only updated when the activity is created and the UI is initialised. (onCreate() in the Activity Lifecycle, refer Appendix II)



- b) The differences between the Pause, Stop and Resume states are as follows:
- Resume – Called after Restart, Pause or Restore Instance State, allowing the activity to begin interacting with the user.
  - Pause – Counterpart of Resume; called when an activity has been moved to the background, though has not (yet) been killed.
  - Stop – Called when an activity is no longer visible to the user. Followed by Restart, Destroy or nothing depending on what happens next.

Source: <https://developer.android.com/reference/android/app/Activity> [last accessed 22/08/18]

## Appendix I: Android Studio Layout



## Appendix II: Activity Lifecycle Diagram

