**CP3406\_CP5307 – Practical 2 Exercises**

Follow through and complete the tasks below.

**Task 1: More foundational Kotlin (Codelab 1) – 20mins**

Work on the first code lab for this week. This code lab covers additional concepts in Kotlin, including pairs/triples, collections, constants, and writing extension functions. This is the final code lab you’ll complete in IntelliJ IDEA, before we start building apps in Android Studio!

**CP3406\_CP5307-codelab-2.1.pdf**

**Task 2: Building your first app in Android (Codelab 2) – 20mins**

Work on the second code lab for this week. This code lab provides a brief overview of Android Studio, including how to create a project, view the main files within a project, set up a virtual device and run your app on it. Nothing too exciting yet, but don’t worry, we’ll start building a more functional app in the next task.

**CP3406\_CP5307-codelab-2.2.pdf**

**Task 3: The Dice Roller app (Codelabs 3 and 4) – 60mins**

Work on the third and fourth code labs for this week, which build upon each other to develop a Dice Roller app – which, if you think about it, is a kind of “utility app”. **Once you have completed the codelabs, expand your app to include some additional features (such as different-sided dice, multiple dice rolls, or additional buttons/views that support another feature of your choice), and submit these additions as part of your practical submission.**

**Task 4: Self-reflection and Progress Demonstration – 20mins**

After completing the practical exercises, spend some time reflecting on how well you did, what things you had trouble with, what things were easy for you, what other things you might be interested in learning about. If there is a specific learning experience you want to write about in some detail, we encourage you to use the **Gibbs’ model of self-reflection**. See [here](https://www.ed.ac.uk/reflection/reflectors-toolkit/reflecting-on-experience/gibbs-reflective-cycle) for a discussion about Gibbs’ model plus an example.

**Steps:**

1. Create a short screencast (~2mins) demonstrating your practical work
2. Write a short self-reflection using the techniques described above (at least 100-300 words)
3. Add your screencast and a zip file of your project as the submission for this practical
4. Add your self-reflection into the“Self-reflections” Journal on the Mobile tech LearnJCU site