### Exercise 1.7: Finalizing Your Python Program

1. What is an Object Relational Mapper and what are the advantages of using one?

ORM converts the content and structure of database into classes and objects and vice versa. The advantage of using ORM includes that you don’t need to know the relevant query for each operation which uses different syntax depending on the DBMS you use.

1. By this point, you’ve finished creating your Recipe app. How did it go? What’s something in the app that you did well with? If you were to start over, what’s something about your app that you would change or improve?

I like how the app turned out. It is well structured, easy to use and implemented error handlers in multiple places that expects errors to occur. I could get a grasp of how Python works and its syntax as well as connecting the app with relational database throughout the achievement. If I were to start over, I would add more complex operations such as categorizing the recipe.

1. Imagine you’re at a job interview. You’re asked what experience you have creating an app using Python. Taking your work for this Achievement as an example, draft how you would respond to this question.

I first leaned about Python fundamentals including how to create virtual environment, how to manage installed packages in each environment as well as file handing in Python as this was a new concept for me. Logic and concepts are similar to Python so it was relatively easy to get used to writing Python code.

First I thought about the data structure for all recipes and each recipe. I created first version of the Recipe App which uses MySQL and its connector to link the app with the database for storing recipe data. The final version of Recipe App uses ORM which simplified the process of accessing, modifying and storing new data as it lets the app interact with database in object-oriented way.

1. You’ve finished Achievement 1! Before moving on to Achievement 2, take a moment to reflect on your learning in the course so far:
   1. What went well during this Achievement?

I did well with understanding the concept and applying that knowledge in each practical tasks

* 1. What’s something you’re proud of?

I learned a brand new programming language that can be added to my skills

* 1. What was the most challenging aspect of this Achievement?

To get a grasp of how Python’s virtual environment works and its package management appeared to be quite complicated and took some time to understand

* 1. Did this Achievement meet your expectations? Did it give you the confidence to start working with your new Python skills?

I am pretty confident writing Python code by now. But I would need to complete several more Python projects before I can start working professionally as a Python developer

* 1. What’s something you want to keep in mind to help you do your best in Achievement 2?

I think it’s important to keep reviewing and refreshing what I learned in previous achievements and keep gaining new knowledge on top of it. And take time to really understand what is happening in the code.