Exam Synopsis

1. Data Structures & functions

In my exam presentation I will:

- Go over the different data structures in Python:
 - o List, Tuple, Set, Dictionary
- Go over comprehension for:
 - o List, Tuple and Set
- · Give examples of List, Tuple and Set comprehension

2. Pythonic OOP

In my exam presentation for Pythonic OOP I will showcase:

- Classes
 - Creation and Instatiation
- Encapsulation
 - o private, public
 - o @properties, why and how to use them
- Data model

3. Generators, Decorators & Context Managers

For this I will present:

- Generators, Decorators and Context Managers:
 - what they are
 - when they are used
 - o why they are used

I will also showcase a use-case where all three can be used together

4. Python modules and the python development environment.

For this I will present:

- Pythons built in modules
 - OS, Sys
- Thirdparty modules
 - o pip, requests
- Developement environment
 - Docker, VS-code, python interpreter.