

Exam Synopsis

Subject 1. Pythonic OOP and encapsulation.

For my presentation I will demonstrate how encapsulation works by creating a custom class and adding both public and private variables to it, followed by showing how these properties can be accessed and used with custom methods. After this I will show how to add attributes to an object during runtime using the Python's built-in `property()` method.

Subject 2. Built-in functions

For my presentation I will show how to use some of Python's built-in functions as well as explain the benefits of having a standardized way to interact with objects in Python. I will end the presentation by using the built-in functions to write to, as well as, read from a file during runtime.

Subject 3. Functions & Decorators

For this presentation I will first quickly show how to pass functions as arguments for functions. I will then show how to create a decorator and use it to modify the behavior of a regular function. Finally I will demonstrate how to add an arbitrary number of arguments to a decorator.