Students have to write an elaboration, where they have to transfer the learned concepts into their existing knowledge of OOP. In the written elaboration students have to:

1. Discuss the concepts learned in this course in the context of another programming language of their 🡪 **PYTHON**  
   using code sketches with written explanations and discussions. The following concepts have to be discussed:
   * Immutable Data

<https://www.mygreatlearning.com/blog/understanding-mutable-and-immutable-in-python/>

* + Type Variables

<https://docs.python.org/3.5/extending/newtypes.html> ??

* + Higher-Order Functions

<https://www.geeksforgeeks.org/higher-order-functions-in-python/>

* + Lambda Expressions

<https://realpython.com/python-lambda/>

* + Currying

<https://python-course.eu/advanced-python/currying-in-python.php>

* + Function Composition and Streaming

<https://mathieularose.com/function-composition-in-python>

streaming: <https://docs.python.org/3/library/io.html>

* + Algebraic Data Types

<https://www.gidware.com/python-adts/>

* + Pure and Impure Side Effects

<https://stackoverflow.com/questions/20027087/how-to-judge-or-how-to-write-a-python-function-with-no-side-effects>

1. Implement the State Monad in the selected language and demonstrate its use through a simple example such as tree labeling.

<https://gaius.tech/2010/09/06/on-monads/>

<https://medium.com/swlh/monads-in-python-e3c9592285d6>