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华夏中文学校 Python-II Syllabus

1. Sqlite

- o Create
- Retrieve
- Update
- o Delete
- Primary and Foreign keys
- Where clause: Find related data

2. Enum

- o Simple enum
- o Enum key-values pair
- o Enum comparison
- o define enum function
- o constructor (new vs. init)
- o Card game enum
- o @property function

3. Functional Programming

- o pass function to function
- o return function
- o decorator function

4. Either

- Reactive X Concept
- o Function chain by Either

5. Monad

- Functor
- Applicative
- Monad
- Function Biding

6. Blackjack Card Game

- Start from scratch
- Unit test for each class
- Using decision table to make decision

7. Design Pattern

- Singleton
- Observer

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- Factory
- Command

8. Understand Dunder Functions and variables

- o name
- o doc
- o init()
- o repr()
- o str()
- o gt()
- eq()
- o ge()
- o len()
- ∘ **lt**()
- ∘ **le**()

9. Logging

- o log information to file
- o define log format

10. Unit Test

- Configure VS Code Unit Test
- Write Unit Test for functions

11. Python Documentation

- Build Python document for class and function
- o refer to document