**Concept Map:**

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| **Concept Level** | **Concept** | **Where to Find** | **How it was demonstrated** |
| Intermediate | Recursion in Practice | Section 1 | Parenthesis Problem that requires recursion to solve. |
| Intermediate | Abstract Classes and Interfaces | Section 2 | Real world payment system through multiple payment options such as PayPal and Debit. |
| Advanced | Abstracted Linked Lists | Section 3 | Real world task management system implements in linked list |
| Advanced | Higher Order Functions – Map, Filter, and Fold | Section 4 | Generating a report regarding courses and students grades through higher order functions. |
| Intermediate | Hierarchical Data Representation | Section 5 | Display all the employees of the company in a Hierarchical Data Representation from csv file |
| Advanced | MVC Design | Section 6 | Implement a task manager through MVC design pattern. |
| Intermediate | SOLID Principles | Section 7 | Theory of each principle explain with a code example. |
| Intermediate | Factory Design Pattern | Section 8 | Use factory design pattern for a game that have multiple types of zombies having different functionality. |