



Classes and Inheritance

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CS8 – Computational Structures in Data Science

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Lecture 10

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Computational Concepts Toolbox

- **Data type: values, literals, operations,**
- **Expressions, Call expression**
- **Variables**
- **Assignment Statement**
- **Sequences: tuple, list**
- **Dictionaries**
- **Data structures**
- **Tuple assignment**
- **Function Definition Statement**
- **Conditional Statement**
- **Iteration: list comp, for, while**
- **Lambda function expr.**
- **Higher Order Functions**
 - Functions as Values
 - Functions with functions as argument
 - Assignment of function values
- **Higher order function patterns**
 - Map, Filter, Reduce
- **Function factories – create and return functions**
- **Recursion**
 - Linear, Tail, Tree
- **Abstract Data Types**
- **Mutation**
- **Class**





Today: class

- **Study on Designing Classes using the Hangman project as a goal**