Abstract Data Types

Loose coupling: implementation of different tasks unrelated

Data Abstraction
- What operations a data collection supports, now how
- Management: CRUD

Data Structures
- Arrays, stacks, queues

Abstract Data Type (ADT)
- Collection of data (data structure) + operations
- Specifications
- Operations = interface (wall of isolation)
    - Programs should not directly access data structure
- Primitive Types = predefined ADTs, portable

Abstract Classes
- Basis of subclasses, no instances
- Declares functionality
- Requires at least one abstract method
    - Other methods can be implemented
- public abstract class Shape {...}

Interfaces
- Consists only of public abstract methods + constants
    - `public static final constant_PI;`
- Can be implemented by classes which define its abstract methods