

COMP1531

Week 5 Tutorial!

Housekeeping

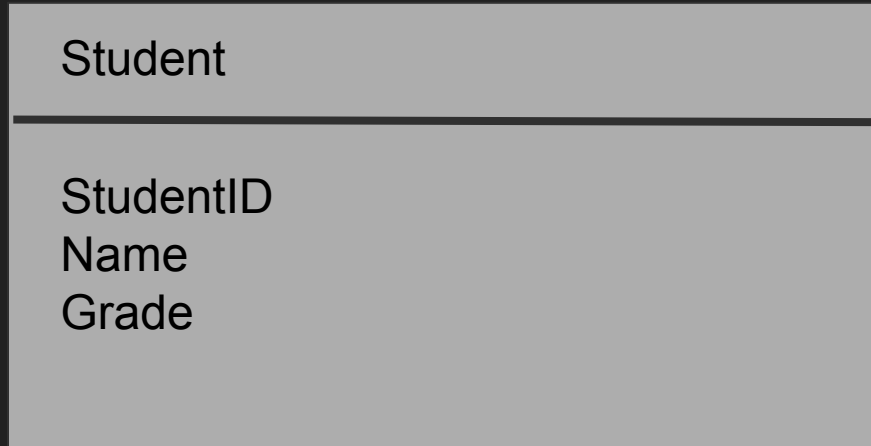
- Mid-term exam (**individual task**):
 - Week 5 Friday midday
 - Take-home (open book)
 - No more than 1 hour (with prep beforehand)
 - 10 MCQ (wk1-4), 1 design question
- Wk 5 lab, Due this Sunday, mark lab 6.
- Demo week 7 lab

Git Best Practice is added

I. OOP in Python

Class

- A class is a blueprint for many objects that share common properties



Abstraction in OO

Class:

- objects
- methods that modify attributes of objects
- if can't access from the outside - we have **Encapsulation**
 - Private attribute can only access with private method

Disclaimer Disclaimer!!!

Private Attribute in Python is denoted by `_` before a variable name.

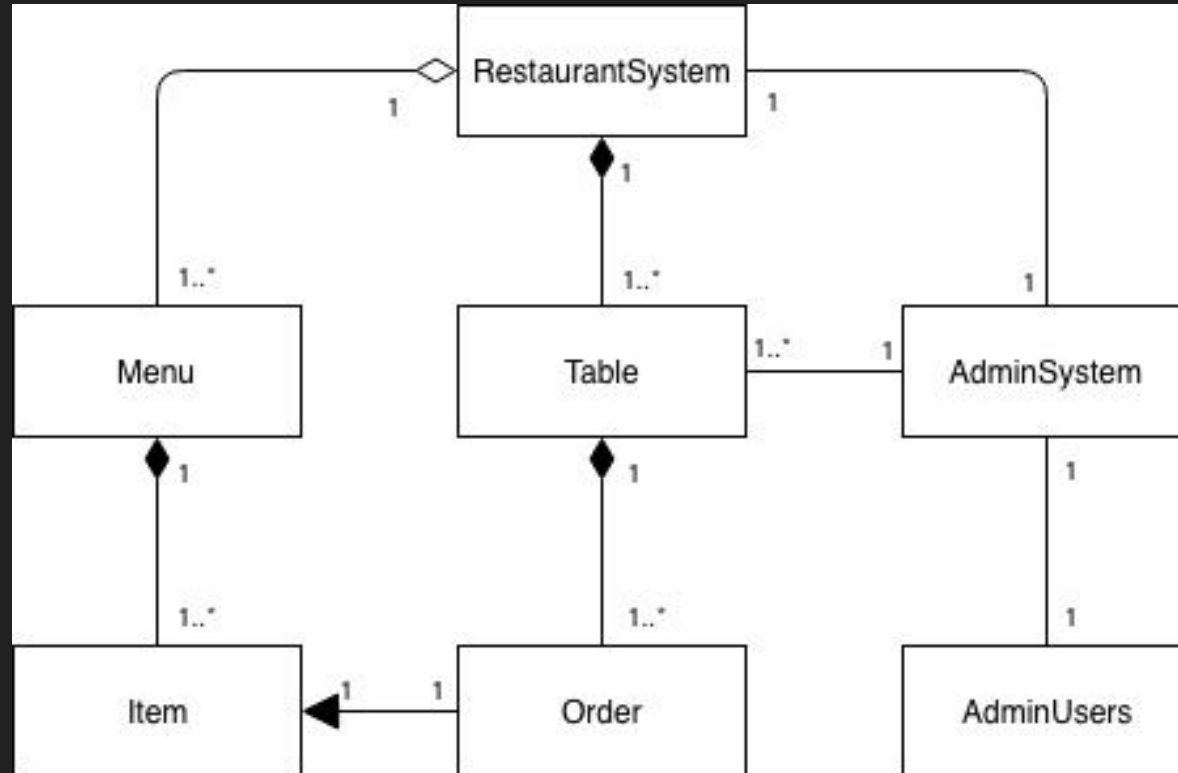
But it's only a guideline! NOT ENFORCED!

You as a programmer should not access it outside of the class, but nothing stops you.

Rectangle

- Length
- Width
- $\text{Area} = L \times W$

From Last Week



II. Abstraction, Inheritance and Association

Types of Associations

3 types

- Aggregation
- Composition
- Association (when the above don't apply)

Aggregation



Composition

