

Session 11

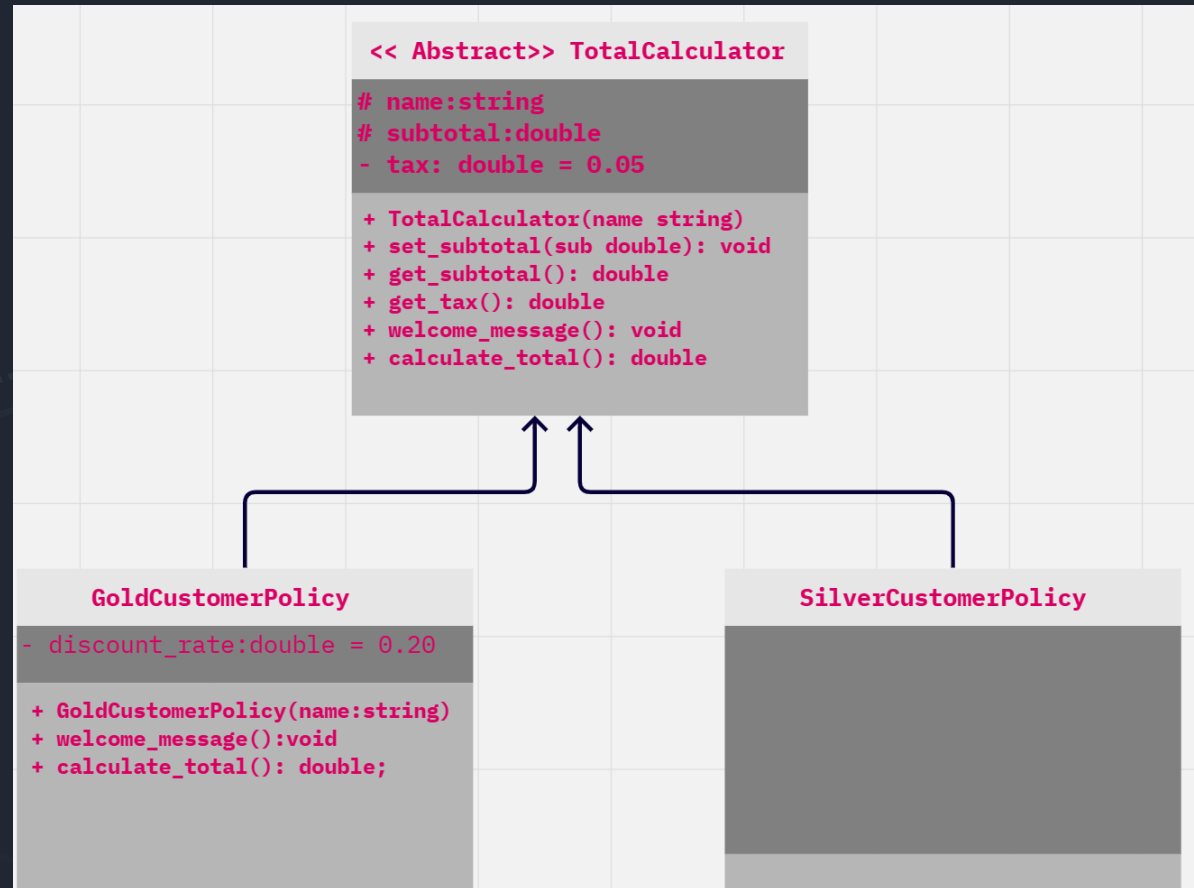
**More exercise on OOP & Inheritance
W/ a real-world case study.**

Imagine You have retail store called Cosmart. You ask your software developer team to develop on program for you that calculates the total of your customer receipts. You inform the team that we have two different type of customers with different discount rate and fixed tax rate.



Dev team has three members: Reza, Bob, and You!

Reza is supposed to figure out the general structure and give the general structure to others for implementation. So, he has implemented an abstract class Called TotalCalculator and has asked Bob and you to extend that.



Reza has implemented the TotalCalculator (both .h and .cc files).

Bob has implemented its derived class, called GoldCustomerPolicy.

Lab Exercise: By exploring the code that Reza and Bob have implemented:

- 1) design your SilverCustomerPolicy class (i.e find out what attributes and functions are required and write them down on a paper in the format of UML)
- 2) Implement you code by completing SilverCustomerPolicy.hpp & SilverCustomerPolicy.cc