



Java Basics

Training Assignment


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RECORD OF CHANGES

No	Effective Date	Change Description	Reason	Reviewer	Approver
1	20/May/2020	Create a new assignment	Create new	DieuNT1	VinhNV

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	CODE:	AssignmentFinal
	TYPE:	Long
	LOC:	N/A
	DURATION:	90 MINUTES

Assignment Final

Objective

- Java OOP

Business needs

- TBD

Working requirements

- Working environment: Eclipse IDE.
- Delivery: Source code, deployment and testing, reviewing evident packaged in a compress archive.

Product architecture

- N/A

Technologies

The product implements one or more technology:

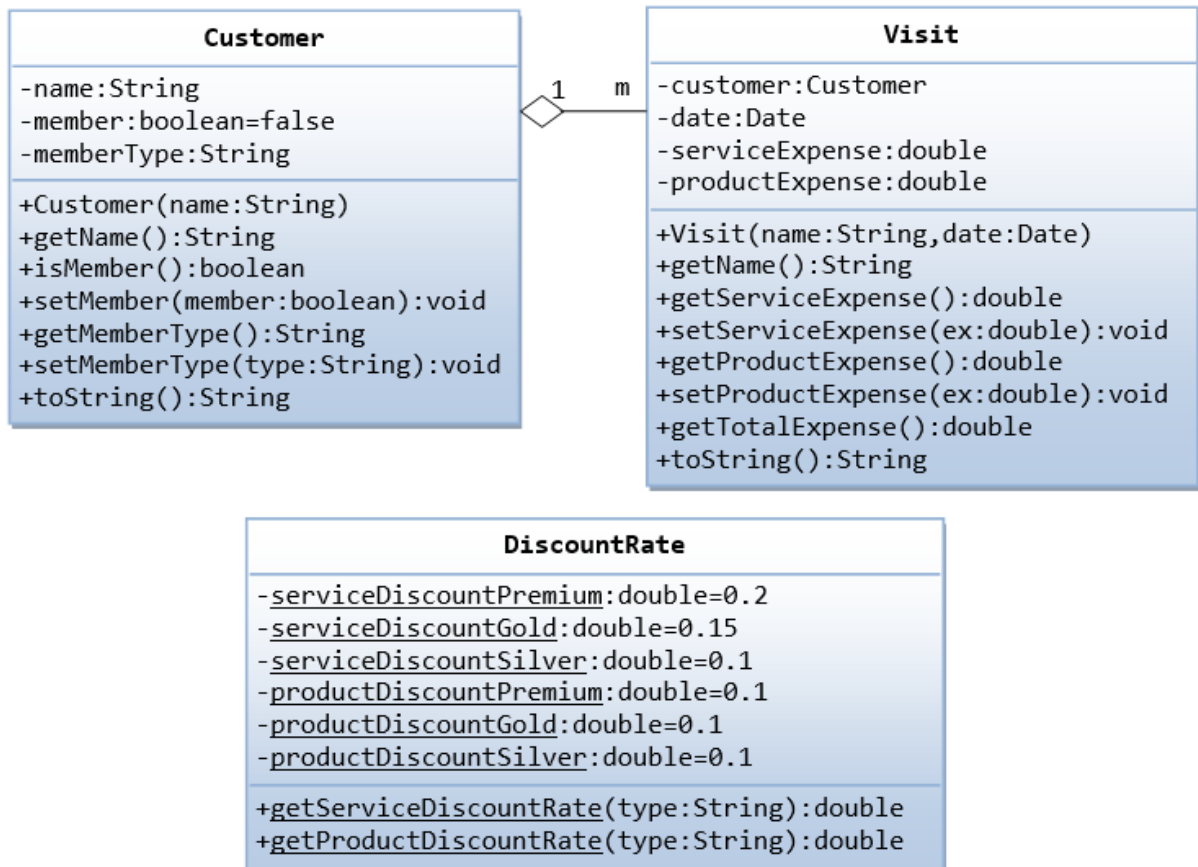
- Java basics

Stored Data

- N/A

Exercise 1:

You are asked to write a discount system for a beauty salon, which provides services and sells beauty products. It offers 3 types of memberships: Premium, Gold and Silver. Premium, gold and silver members receive a discount of 20%, 15%, and 10%, respectively, for all services provided. Customers without membership receive no discount. All members receives a flat 10% discount on products purchased (this might change in future). Your system shall consist of three classes: Customer, Discount and Visit, as shown in the class diagram. It shall compute the total bill if a customer purchases \$x of products and \$y of services, for a visit. Also write a test program to exercise all the classes.



The class DiscountRate contains only static variables and methods (underlined in the class diagram).

-- THE END --