Nesneye Yönelik Programlama BLM2012

Öğr. Grv. Furkan ÇAKMAK

Ders Tanıtım Formu ve Konular

BLM2012 Nesneye Yönelik Programlama Hafta 4

Hafta	Tarih	Konular
1	01.03.2022	Dersin ve Java Dilinin Genel Tanıtımı, Sınıflar, Nesneler, Üyeler, Final ve Static Kavramları
2	08.03.2022	UML Sınıf Şemaları, Kurucular ve Sonlandırıcılar, Denetim Akışı, Nesneleri Oluşturulması
3	15.03.2022	Kurucuların ve Metotların Çoklu Tanımlanması, İlkeller, String ve Math Sınıfları
4	22.03.2022	Sahiplik ve Kullanma İlişkileri, Tek Yönlü ve İki Yönlü Sahiplik Kavramları
5	29.03.2022	Toplama ve Meydana Gelme İlişkileri
6	05.04.2022	Kalıtım, Metotların Yeniden Tanımlanması ve Çoklu Metot Tanımlamadan Farkı
7	12.04.2022	Dosyalar ve Akışlar ile Çalışmak (Serileştirme ve Ters İşlemi)
8	19.04.2022	1. Ara Sınav
9	26.04.2022	Temel Veri Yapılarının Jenerik Sınıflar Eşliğinde Kullanımı (Liste ve Eşleme Yapıları).
10	03.05.2022	Ramazan Bayramı
11	10.05.2022	Tip dönüşümü, Enum Sınıfları, İç Sınıflar
12	17.05.2022	Tip dönüşümü, Enum Sınıfları, İç Sınıflar (Devam)
13	24.05.2022	2. Ara Sınav
14	31.05.2022	Paralel Programlamaya Giriş

RELATIONSHIPS BETWEEN OBJECTS AND CLASSES

- **Association**
- **Dependency**
- Aggregation
- Composition
- Inheritance

INHERITANCE

- Real world: A child inherits genetic properties from his/her parents.
- OOP: A means of creating new classes from an existing class, in a way that is similar with the real world.

Inheritance

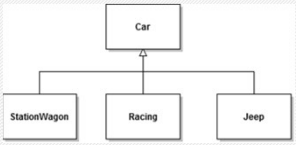
Parent class
Super class
Base class

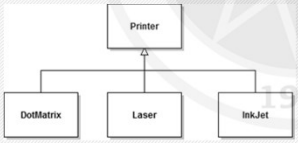
Child class
Sub class
Derived class

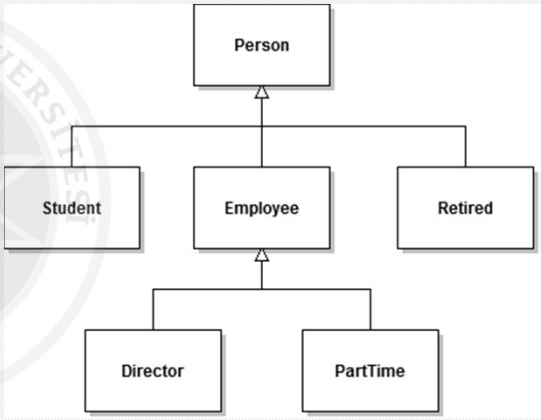
- private
 # protected

INHERITANCE (Devam)

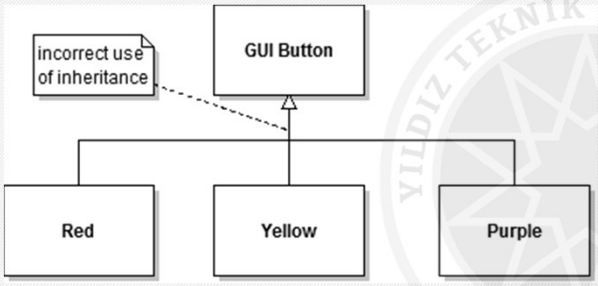
- Override
  - Final methods cannot be overridden.
- New members can be added to sub classes.
- Inheritance hierarchy / Inheritance tree
- Inheritance is also called as the generalization – specialization relation

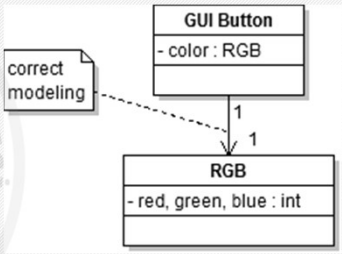




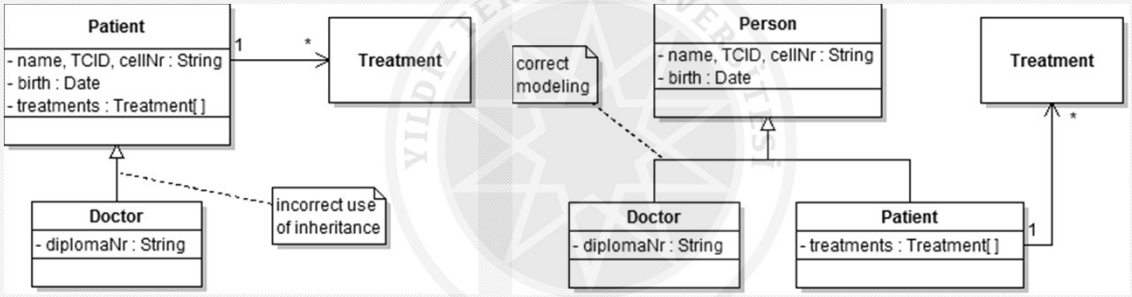


Misuse of Inheritance





Misuse of Inheritance (Devam)



INHERITANCE (Devam)

- Evaluation of inheritance relationship:
  - Inheritance is a class-level relationship that cannot be changed during runtime.
  - Experienced object oriented modelers choose inheritance only if there is a clear gen-spec. relationship. Otherwise, association, composition or aggregation (object-level relationships) is used.
  - Correct use of inheritance is an important part of every design pattern, a subject that must be studied by people who want to be software professionals after complete study of object orientation.

POLYMORPHISM and OVERRIDING

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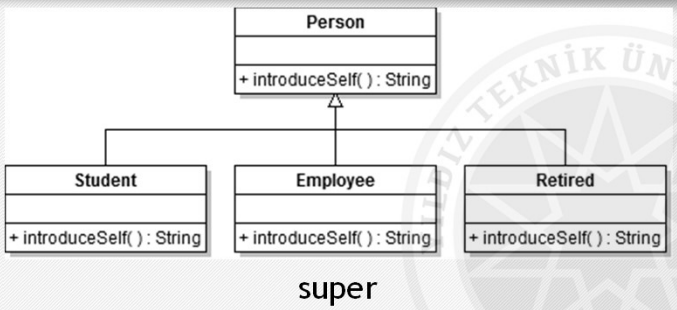

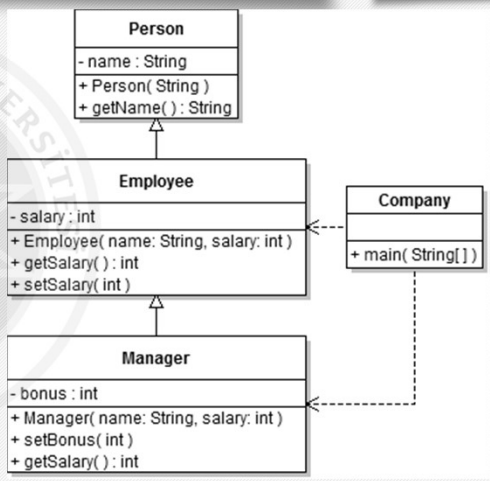

Sabırla Dinlediğiniz İçin Teşekkürler

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