Monday March 4 Lecture 15 Object - Oviented Programming ( OOF - Templates (compile-time Java > ~ (attributes) varables 2 methods -> Constructor mutator · accessor Instances / Entitles ( runtime Object ~ calling constructor to create objects vuse of "dot notation" to

get attribute values

call accessor or mutator

Model: From Entities to Classes

Identify Critical Mouns & Verbs

Example 7 7 class/femplage

At this lufter / classes mothods

A person is a being, such as a human, that has certain attributes and behaviour constituting personhood: a person ages and grows on their heights and weights.

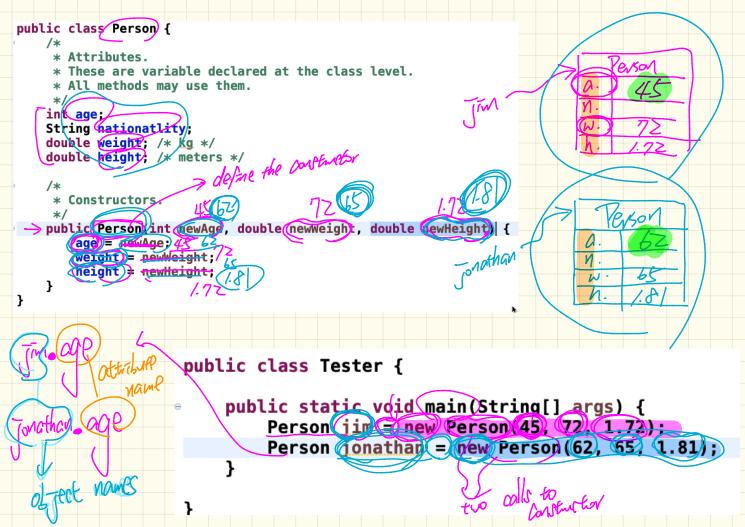
Example 2

Points on a two-dimensional plane are identified by their signed distances from the X- and Y-axises. A point may move arbitrarily towards any direction on the plane. Given two points, we are often interested in knowing the distance between them.

public (class Person) Person \* Attributes. \* These are variable declared at the class level. \* All methods may use them. int age; String <u>mationatlity</u>, double weight: /\* kg \*/ double height: /\* meters \*/ Constructors. Person in newAge newWeight, newHeight) { age = newAge; dange public state wid weight = newWeight; height = newHeight; }

) double (newly) name of bonstructor the construction

attribut. class Person ? mt newAg



Test Driver Development (TDD)  tester App	
public class Tester?  public static road marn (Stringe ] args) {  :/* create and marquiate objects  }	USPS model model model model
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