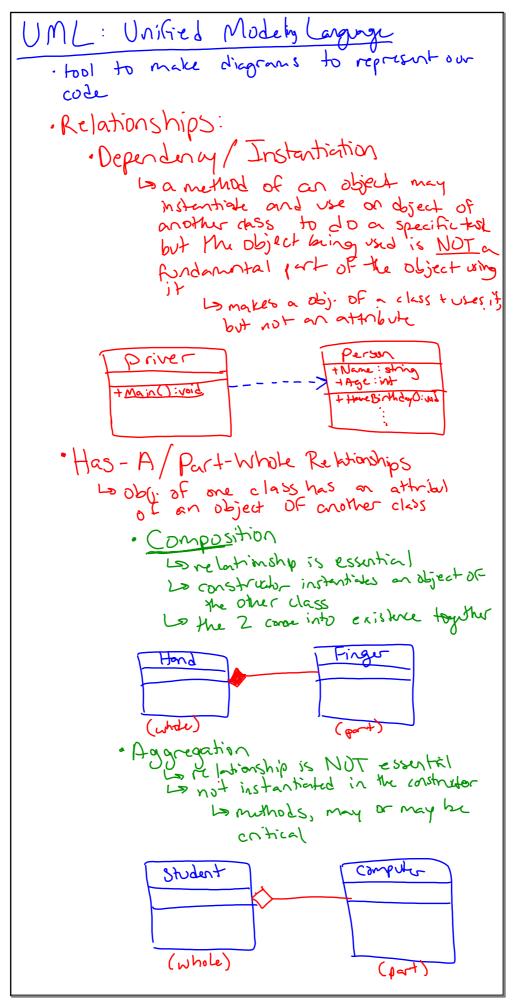
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OOP (Object-Oriented Programming) ·Modularization: determing the classes you need to solve a problem · Encapsulation: making sure all related components (variables, methods) are in a single class so that the class is selfcontained · Abstraction: once a class is built, we can treat it as a new data type and use objects of that class v/o having to know how it works inside ·Accessibility (public/private) · Data Hiding · Security reasons · Doesn't need to know · Should n't access it · Ideal: make everything private unless access is a bothley needed · Polymorphism: "many forms" to mean many things, unambiquously · Method Overbading: Some name, Sittlement param lists Draw Public void Drow (Rectorgle r) 7 //Draw the rect. Jublic void Draw (Circle c) " // ..._ circle public int Add (int a, int b) Public double Add (double and able b) 7 x see code length Rectorate (troph of side) Sentince (# of words) Lecture (# mins/hrs) · Inheritance (discussed later) ·Classes + Objects · Class: bluepoint/ pattern/ design describes the attributes + Functionality of every instance of the class · Object: one unique instance anded from blueprint (class) is many doj. from the same class Lo each doj has the same attr + from Lo varhes of the attr. allow objs to diffe/ · Message passing: asking an obj. of a class to perform some action (adlling a method) . State of an object: the set of values or all attr. of an object aparticular point in time · components of object: attributes | properties methods constructors

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Enumerated Data Types
La enums
odata type w/ small # of specific values