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Cs1122

Week 4 exercise

1. The five steps include Gather requirements where you take all the clients wants/need for the program and write them down in English. Step 2 is to draw CRC cards of all possible classes and to find responsibilities and collaborators. Step 3 is to draw a UML diagram to find the relationships of the classes. Step 4 is to use Javadoc to document the methods and behavior of the program. The last step is to implement the program and work out any bugs.

2. You want to Identify the object that is responsible for the action so you know where in your program to put the method. You wouldn't put a truck size method in a car class.

3.

- a. University, Student -Aggregation
- b. Student, Teaching Assistant- Aggregation
- c. Student, Freshman- inheritance
- d. Student, Professor - Aggregation
- e. Car, Door - Aggregation
- f. Truck, Vehicle - inheritance
- g. Traffic, Traffic Sign - Aggregation
- h. Traffic Sign, Color - Aggregation

4.

Class name: FileHandler	Collaborators
Responsibilities	Country
Reads in file	InfoSorter
Makes new Country(name,population, population density)	
List of country's	

Class name: Country	Collaborators
Responsibilities	FileHandler
Get/set name	
Get/set population	
Get/set population density	
Get/set area	

Class name: InfoSorter	Collaborators
Responsibilities	Country
Find largest area	Fileshorter
Find largest population	
Find largest population density	
Print results	

