**Week 2 – day 1:**

**Object-Oriented Programming**

*------ Lecture by Faisal -------*

**Class / Instance**

Example file: /Week2/day1/lecture/oop\_review.rb

**Class variables** - @@

**Instance variables** - @

**Attr-accessor / -reader / -writer** Getter and setter methods

**Self** – for calling a method on a class level

Ex. “def self.find\_residence\_by\_person(name)”

**Super** – calling on a method from a parent class

Ex. “super” 🡪 for inheriting all parameters in instance from parent class

“super(name)” 🡪 for one parameter among several in an instance  
 “super('Audi A4', 255)” 🡪 for setting as default certain parameters

NOTE: A subclass and an instance are not the same thing. In a super class, there can be @@methods that apply to the whole class, as well as @methods that apply only to instances of that class. Subclasses inherit @@methods but not necessarily @methods.

*------ File I/O Exercise -------*

INSTRUCTIONS: Complete all the exercises in the [I/O chapter](http://ruby.bastardsbook.com/chapters/io/" \t "_blank) of The Bastards Book of Ruby except for the last one, **"Exercise: Read a text file and create a Google Chart"**.