Lecture 5 - Sep. 19

Review of OOP

Anonymous Objects Reference to <u>this</u> Static Variables

Announcements/Reminders

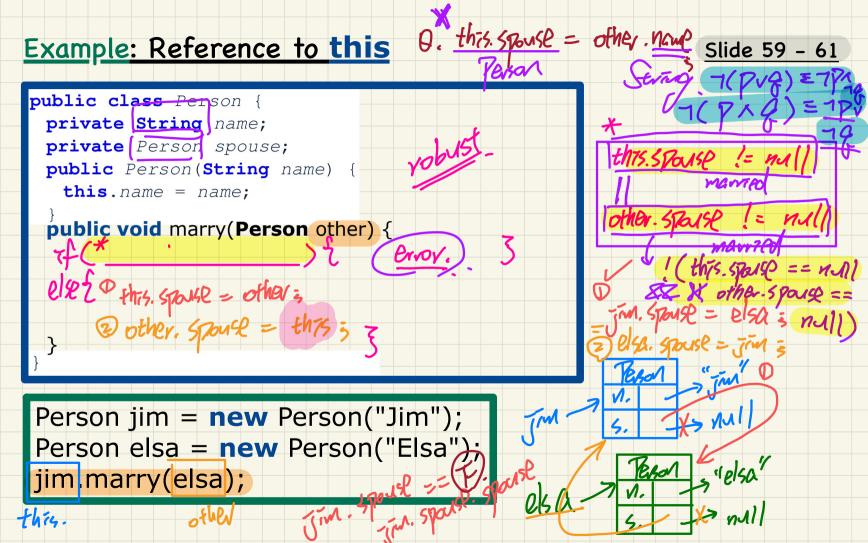
- LabOP2 due tomorrow (Friday) at 12 noon!
- Lab1 to be released after Lab0P2 is due.
- In-Lab demo on the Programming Pattern
- Today's office hour to be re-scheduled
- Mockup Programming Test next Fri (5pm or 6pm)

```
Anonymous Objects
                                                                           Slide 56 - 58
   double squate(double x)
                                  double square(double x)
     double sqr = x * x;
                                    return x * x;
     return sgr; } Anonymod
   Person get (String n)
                                     Person getP(String n)
                                                                    object expressy
(wheat ref.
a varable)
     Person (p) = new Person (n);
                                       return new Person(n);
3
     return (p;
                    anny or
        class Member
                                                  Exercise
         private Order[] orders;
         private int noo;
         //* constructor ommitted */
         public void addOrder(Order o) {
                                                                  Order 10 = new Order : (1, p.q.)
           this.orders[this.noo] = o;
           this.noo++;
                                                                  this. orders [100] = 0;
         public void addOrder(String n, double p, double q
                                                                12 this add Ovoler (
```

(1) No coordinars estrects.

Les many local, intermediate variables CZJ No intermediate variable

L> long expressions



Exercise void marry (Person other) { this. spaise = other;
other. spaise = this; else { error 3

```
public class Account {
  private int id;
  private String owner;
  public int getID() { return this.id; }
  public Account(int id, String owner) {
    this.id = id;
    this.owner = owner;
  }
}
```

```
class AccountTester {
  Account acc1 = new Account (1,
  Account acc2 = new Account (2,
  System.out.println(acc1.getID() != acc2.getID());
}
```

Declaring Global Variables among Objects Ref. to static var.: Classiane varil. public class CounterTester { public class Counter { private int 1; non-static public static void main(String[] args) { Counter c1 = new Counter(): static int $q \downarrow 0$; Counter c2 = new Counter(); public Counter() { System.out.println("c1's local: " + c1.getLocal()); this.1 = (0:)System.out.println("c2's local: " + c2.getLocal()); O System.out.println("Global accessed via c1: " + c1.a); System.out.println("Global accessed via c2: " + c2.a): public int getLocal() { System.out.println("Global accessed via Counter: + Counter.a) return this.1; c1.incrementLocal(); c2.incrementLocal(): 'public void incrementLocal() { c1.incrementGlobal(); further. 9 this.1 ++; c2.incrementGlobal(); public void incrementGlobal() { Counter.g = Counter. g + 1, // Counter.g obal ++; **q** ++;