1. Lecture 7 – C++ Classes – Constructor(s) (Pt.2)
   1. Constructor(s)
      1. Class Cheatsheet
         1. Same as the lecture before
         2. New:
            1. Dot Operators
            2. Arrow Operators
      2. Implementations
         1. *Initializer List*(s)
            1. Syntax (in Function Implementation only):

⮚ Comma ( **,** ) separated list following colon ( **:** ).

⮚ After Function Parameter List – parentheses.

⮚ Initializes members by-Name (can use **ctor** Params).

* + 1. Aggregate Class Constructor(s)
       1. **Composition**:
          1. ⮚ Objects can hold other Objects!
          2. ⮚ “Has-a” relationship.
       2. Example:
          1. ⮚ Class “has a” **private** Data Member of another Class-type.
  1. Static Member(s)
     1. Static Variables
        1. **static** *local* variables – in general:
           1. ⮚Local scope, but persist in memory.
     2. Static and Classes
        1. **static** Class Member Variables:
           1. ⮚ *All* Class Objects share *the same* (one-and-only copy of) data .
        2. If one Object modifies it, all Objects will see the change.
        3. Usual utility is for “tracking”, i.e. :
           1. ⮚ How often a Member Function is called.
           2. ⮚ How many Objects exist at given time.
        4. **static** Member Functions:
           1. ⮚ No access to specific Object data is needed (still is member of the Class Namespace).