

## ET-580 - Object Relationships - Homework

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### Reading

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#### Chapter 15 Polymorphism & Virtual Functions

### Implementation

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1. Implement the following:

- a. A class named *Food*.
  1. dynamic data member: *name*
  2. all accessors and mutators
  3. the big three
- b. A class named *Cake* that inherits from *Food*.
  1. dynamic data member: *topping* (type of icing such as chocolate)
  2. accessors and mutators
  3. the big three
- c. Create an object of type *Food* and output its data member
- d. Create an object of type *Cake* and output its data members
- e. Test all inherited functions in *main*

### Output Example

Ice Cream Cake, Chocolate Icing

s2: Copy Constructor

Ice Cream Cake, Chocolate Icing

s3: Assignment Overload

Ice Cream Cake, Chocolate Icing