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CIS 3309

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## Stage 1 Assignment

### Owl Member List Class

**Class Description**: This class creates a list of each owl member’s information.

**Attributes**:

* Int count
* List<OwlMember> members

**Methods**:

* OwlMemberList() //constructor
* add() //add to the list

### Owl Member Class

**Class Description**: This is an abstract class that will be inherited by students and faculty. Containing required methods for all classes that inherit it in the hierarchy.

**Attributes**:

* Name
* TUID
* BIRTHDATE

**Methods**:

* owlBirthDate() //Accessor/mutator for birthday
* OwlName() //Accessor/mutator for name
* OwlID() //Accessor/mutator for ID
* Save() // Save data from form ton object
* Display() // Display data in object on form
* ToString() //Overrides the object toString fucntion

### Student Class: Owl Member

**Class Description**: This class creates a Student with a major and a GPA.

**Attributes:**

* Major
* GPA

**Methods:**

* Student() //Constructor
* StudentMajor() //Accessor//Mutator
* StudentGPA() //Accessor//Mutator
* Save() //Data from form to object
* Display() //Display data in the object on the form
* ToString() //This toString function overrides the Object toString

### Faculty Class: Owl Member

**Class Description**: This class creates a faculty member giving them a department and rank.

**Attributes**:

* Department
* Rank

**Methods**:

* Faculty() //Constructor
* Department() //Accessor//Mutator
* Rank() //Accessor//Mutator
* Save() //Data from form to object
* Display() //Display data in object on form
* ToString() //This toString function overrides the Object toString

### Undergraduate Student Class: Student

**Class Description**: This class creates an undergraduate student with tuition, year, and credits.

**Attributes:**

* Tuition
* Year
* Credits

**Methods**:

* Undergraduate() //Constructor
* Tuition() //Accessor/Mutator
* Year() //Accessor/Mutator
* Credits() //Accessor/Mutator
* Save() //Data from form to object
* Display() //Display data in the object on the form
* ToString() //This toString function overrides the Object toString

### Graduate Student Class: Student

**Class Description**: This class creates a graduate student with degree program and stipend.

**Attributes:**

* Degree Program
* Stipend

**Methods**:

* Graduate() //Constructor
* Degree Program() //Accessor//Mutator
* Stipend() //Accessor//Mutator
* Save () //Data from form to object
* Display() //Display data in object on form
* ToString () //This toString function overrides the Object toString

### Chairperson Class: Faculty

**Class Description**: This class creates a chairperson with a stipend.

**Attributes**:

* Stipend

**Methods**:

* Chairperson() //Constructor
* Stipend() //Accessor//Mutator
* Save () //Data from form to object
* Display() //Display data in the object on the form
* ToString () //This toString function overrides the Object toString