Joseph Massre

Professor Bari

Data Structures HW #1

1. Method overloading – Takes place in 63 in Student class and line 244 in Admin class. The one in the Admin class takes no parameters, so it is just “public void register()” and the one in the Student class takes a CourseList object as its parameter so it’s “public void register(CourseList c)”.
2. Method overriding- happens whenever I implemented an interface on a class and I would use that method so it would override the method. For example, I overrided the viewOpen(CourseList c) method from the studentInterface interface by using it in line 46 in the Student class. I also overrided the withdraw(CourseList c) method from the studentInterface interface by using it in line 138 in the Student class.
3. Inheritance – Both Admin and Student classes inherit from User class. They have the “extends” headers and use super(String, String) in their constructors.
4. Encapsulation – The Course class follows encapsulation as all variables are private and it uses getters and setters throughout the class.
5. Abstract Data Type - I used Abstract Data Types by creating the studentInterface and adminInterface interfaces. They provide instructions and requirements for the Student and Admin classes to follow.