**Week 4 Grade: 72/100 (5.8/8 of the final grade)**

**Review the following:**

1. **Course Content -> Java Review and more -> Passing object instead of value to identify**

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| **Points** | **Item** |
| 22/25 | Feedback from previous assignment is incorporated correctly into the class diagram  Manager   * complete\*, cancel\*, calculate\*: incorrect parameter for reservation - you should not be passing the whole object - review doc #1 above   Reservation   * constructor: status cannot be passed as parameter as object must start in draft status (same comment for children) * Missing constructor with String line parameter to handle common attributes * It would be useful to have constructor that loads from filename (same for children)   Reservation children   * Constructors: missing parameter for reservation number   HotelReservation   * Constructor missing parameter for number of beds (same HotelReservation)   Account   * It would be useful to have constructor that loads from filename (same for children) |
| 10/10 | Class diagram meets the system specification and does not have anything extraneous (you should only be adding/changing attributes and methods for polymorphism and encapsulation) |
| 3/10 | Added/changed correctly the diagram to show valid polymorphism: overriding. Document explains all overriding in the class diagram   * HotelReservation: calculatePricePerNight(): calculation is identical to parent’s method so nothing to override and should not have this method * Reservation children: calculateTotalPrice(): calculation is identical to parent’s method (call to calculatePricePerNight() multiplies by number of nights) so nothing to override and should not have this method * Missing explanation |
| 5/10 | Added/changed correctly the diagram to show valid polymorphism: overloading. Document explains all overloading in the class diagram  Missing explanation |
| 4/5 | All the class attributes are private or protected appropriately to protect the integrity of the class’s data.   * Address’s attributes should be private |
| 4/5 | All methods have correct access modifiers (private, protected, or public)  Manager: createAccountDirectory: should be private as only manager should create the sub-directories where files are stored |
| 7/10 | The attributes have get methods to access the attribute values with correct return data types. Get methods have the correct return data types  Manager   * Missing get method for accounts   Account   * Missing get method for reservations   Reservation   * Missing get method for accountID * getStartdate(): incorrect name - Get method must be “get” followed by attribute name with first letter uppercase(similar for some other get methods across diagram) |
| 4/10 | The attributes have set methods except when a value cannot be changed after creation or cannot be changed directly. In that case there is no set method for it.  Address   * Missing set methods   Reservation   * Missing set methods for accountID, reservationStart, noOfNights, noOfbedrooms, reservationSize, noOfBeds   Reservation children   * Missing set methods for the locally defined attributes |
| 8/10 | Pseudo code is updated with new/changed constructors and methods  Account   * Account(String line) - you can only use either XML or JSON so which are you doing? Your pseudo code needs to be specific to the format you plan to use (same for all other places where both formats are mentioned)   Reservation and children:   * Set methods must validate that the reservation is in draft otherwise it cannot be changed |
| 5/5 | Diagram is exported and submitted as an image (in ArgoUML go to File | ExportGraphics and it converts workspace to image file PNG by default) |