**Object Oriented Programming 1**

**Fall 2015-16**

**Lab Manual: 06**

Lab Task:

1. Lab Review, and start with unfinished classes from Lab\_05
2. Develop Java classes

**Note: Student must follow the exact name of class, member variables, and functions.**

**And students should use fully qualified names for these, as well camel notions.**

**And the syntax alignment has to be as it should be.**

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| Inheritance | | |
| Reuse Account class, and OverdraftAccount class extends Account class.  OverdraftAccount  as member | OverdraftAccount  Account  **OverdraftAccount**  Member Variable: int overdraftLimit  Member Function: boolean withdraw(int amount) //overwrite this method |  |

* Implement the above inheritance scenario.
* Test base and derived class’s constructor calling.
* Test the visibility of access modifiers (public, private, protected, and default), same package and different packages.
* Test the class level visibility (public and default)

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| Try this | Consider a bank has three different types of accounts. An account holder (Person/Student) can have any one of these below type.   1. Current 2. Savings 3. Overdraft   These three types of account has different advantages and disadvantages   * Current Account   + Current account holders can withdraw all of his/her amount * Saving Account   + Saving account holders can withdraw maximum 80% of his/her total amount * Overdraft account   + Overdraft account holders can withdraw additional amount which is set by at account creation time (overdraft limit amount)   After implement this structure change the account type (ex: current to saving or else) and changes will automatically reflected as well.  You have to develop this scenario on your own. |