# Object Oriented Programming 1
# Fall 2015-16
# Lab Manual: 07

Lab Task:

1. Lab Review, and start with unfinished classes from Lab_06
2. Develop Java classes

**Note: Student <u>must</u> follow the name of class, member variables, and functions.**
**And students <u>should</u> use fully qualified names for these, as well <u>camel notions</u>.**
**And the <u>syntax alignment</u> has to be as it should be.**

1. Lab_06 Classes – Review:

2. Develop Java Classes:

| Calculator Class | double x<br>double y | Member variables<br>Declare Private |
|---|---|---|
| | 2 Constructor (Empty, valued) | Declare public |
| | double add(double x, double y)<br>double sub(double x, double y)<br>double mul(double x, double y)<br>double div(double x, double y) | Declare public |
| | **ArithmeticException** | Check arithmetic dependency |
| | **IOException** | Check Input Output Exceptions |
| Use java.utill.Scanner class to take input from the console.<br><br>The program will ask for the choice of operation from the user first. User will input the choice then the value of the operations will be given. | | |

| Account Class | String accName<br>String acid<br>int balance | Member variables<br><br>declare private |
|---|---|---|
| | 2 Constructor (Empty, valued) | |
| | deposit(int amount) | |

| | Withdraw(int amount) | |
|---|---|---|
| | transfer(int amount, Account receiver) | Transfer amount from one account to another account |
| Exception Class **ZeroAsParameterException** | **ZeroAsParameterException** throws message "0 cannot be a parameter" that will be identifiable during compile time. | if any of the parameter is 0 (zero) Check before withdraw and deposit |
| Exception Class **NegativeResultException** | **NegativeResultException** throws "Result cannot be negative" that will not be identifiable during compile time. | if the result of subtraction or addition is negative Check before withdraw and deposit |