Object Oriented Programming 1
Spring 2015-16
Lab Manual: 02

Lab Task:

1. Lab Review, and start with unfinished classes from Lab_01
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.

Develop Java classes:

Account	String accName String acid int balance	Member variables declare private
	2 Constructor (Empty, valued)	
	deposit(int amount)	
	Withdraw(int amount)	
Extended part		
	transfer(int amount, Account receiver)	Transfer amount from one account to another account
Student	String name String id String department float cgpa	Member variables declare private
	2 Constructor (Empty, valued)	
	showInfo	
	Setter Methods	Example: setName(String name) String getName()

OOP concept validation, such as encapsulation:

From these above examples students can realize the concept of encapsulation, which is achieved using class and access modifiers (will be explained details in inheritance).

Book	String bookName String bookAuthor String bookId String bookType int bookCopy // how many copy	Member variables declare private
	2 Constructor (Empty, valued) void showInfo() void addBookCopy(int x)// how many copy of book	
	To count the total number of book object use static modifier to count book object. If static is covered in your theory class only then you precede this.	
	static int bookCounter static void showTotalBookInfi()	
Contact	String personName String personId int age String mobileNumber; Char gender // M or F	Member variables declare private
	2 Constructor // empty and valued void showPersonInfo() void detectMobileOperator() // it will show GP or Robi or Banglalink depend upon the operator	