IT 483
Lab Exercise 03

Due: In Lab, the week of November 23rd

Main topics: Programmer Defined Methods

Exercise

This lab is designed to give you practice working with methods. You will write a program for a local banker with a method named `transaction`. Your method will need to utilize two input parameters and the method's return value (for its output).

Problem Description

- Read through the algorithm code to understand what it does and what is left for you to do.
- Write the code in C# so that it satisfies the following specification:

  - A local banker has asked you to write a method named `transaction` which takes :
    - a customer's current balance
    - the amount of money to update the account by :
      - a positive dollar amount is a deposit
      - a negative dollar amount is a withdraw

    as input parameters, and then returns
    - for deposits: the deposit amount is simpily *returned* by the function.
    - for withdraws: the balance must not become negative. If a withdraw is requested for more than the current balance then the amount (which would zero the balance if withdrawn) is *returned* by the method. Otherwise the withdraw amount is simpily *returned* by the method.

    - Once you have written your class:
      1. Make sure that your programs compile and run without errors or warnings.
      2. Run your program enough times to check all the choices for correctness.

```
import java.util.Scanner;

public class Lab03
{


public static void main(String[] args)
{
  Scanner stdIn = new Scanner(System.in);

  double curBal = 45.32;

  double amount;
  System.out.print("Please enter a amount to update account by $");
  amount = stdIn.nextDouble();
  System.out.print("\n");

  System.out.print("Customer\'s balance (before transaction) = $");
  System.out.println(curBal + "\n");
  System.out.print("Requested update amount = $");
  System.out.println(amount + "\n");

  double actAmount;
  actAmount = transaction(curBal, amount);
  curBal += actAmount;

  System.out.print("Actual update amount = $");
  System.out.println(actAmount + "\n");
  System.out.print("Customer\'s balance (after transaction) = $");
  System.out.println(curBal + "\n");

  System.out.println("\nThank you and good-bye!\n");

  stdIn.close();

  }

  public static double transaction(double bal, double amount)
  {
   // Write your code here ...

   return 0.0; // actual return value here (NOT 0.0)
 }
}
```