40 pts	Name: _	
	Class Day / Time: _	
	Due Date: _	

Lab #11 - Assembly - Arithmetic Expression II

In this lab you will write an x86-assembly program to implement the following arithmetic expression:

Result = (Num1 + 28) / (-Num2 * 60) + (-Num3 % 7)

The program will execute the following steps:

- 1) You will input the **three (3) numbers** from the console and store them in memory. Label the memory locations with the names as in the expression above. Handle the numbers as double words.
- 2) Create another memory location to store the result and label it as Result.
- 3) Calculate the expression, but do not change the value of the three original numbers in memory. Use **shift/addition method** to implement the constant multiplication. Store the result in memory.
- 4) Output the result to the console.

Implement the program; test program a number of times with different data. You will need to turn in **three** test runs for the program:

- a. using small positive numbers (two digits numbers)
- b. using **small negative** numbers (**two** digits numbers)
- c. using combination of **positive and negative larger** numbers (**three** or more digits numbers)

Turn in (STAPLED IN THIS ORDER)

- 1. The **FIRST PAGE** of this lab as a coversheet
- 2. The listing of .asm source code properly documented
- 3. The **two** output from the program, either pasted into .asm source code or using print screen