**Assignment #1**

**CSCI 4335**

**Dr. Abraham**

In our first lecture we discussed that as computer architects we need to decide upon an instruction set for a computer. The instruction set we design should address all types of programming needs. In order to get a general understanding of the instruction set you are asked to develop an instruction set for a very limited computer that will only handle multiplication of two numbers. The computer should be able to read these two numbers, store in memory locations, bring them into the register, allow ALU to do the operation and save the result in a register and then send it to a memory location and output the result. Please model this assignment for an Accumulator machine. Please develop an instruction set for this very limited computer and write a program to use this instruction set. When writing assembly code please give comments for each line.