Assignment 1- Chapter 3

**Objectives**: The objectives of this assignment are:

1. Practice some arithmetic operations on registers.
2. Write a simple assembly program using the assembly language syntaxes seen in chapter 3.

**Exercise #1 (12 points)**

Let EAX=0x40506070h, EBX=0x00000001h, ECX=0xABCDEF12h, and EDX=0x22223333h

What will be the state of the above registers after we do…

1. add eax, 10h
2. sub ecx, eax ; consider the value of eax updated in q.1
3. mov dh, 0xFF
4. mov bx, ax ; consider the value of eax updated in q.1

**Exercise #2 (18 points)**

Write an assembly program that:

* + prompts the user to enter an integer number A.
  + calculates the values of
    - B = A – 10
    - C = B + A
    - D = C – 1 + B
    - E = A + D
  + prints the value of E

The output should look like the following.

A black rectangular object with red border

Description automatically generated

**Deliverables: (Exercise 2)**

•Your assembly code (.asm) file.

•A screenshot of your code running, proving it works, or showing how far you got.

•The path on the server where it can be found. (run `pwd` to get this)