### Spring 2021

# CSCI 2450: HW5 (Programming Assignment) (10 points)

#### **Problem 1: Greatest Common Divisor (GCD)**

Greatest Common Divisor (GCD): The greatest common divisor (GCD) of two integers is the largest integer that will evenly divide both integers. The GCD algorithm involves integer division in a loop, described by the following pseudocode:

Implement this function in assembly language and write a test program that calls the function several times, passing it different values. Display all results on the screen. (**Hint:** You may use any concepts we have covered till now. You may need to use instructions from chapter 07.)

## **Submission & Marking Guideline**

- This is an individual assignment. Do not share your work with others.
- Deadline

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May 06, 2021 Thursday 11:59 pm
```

- Submission
- Your solution must be an assembly language file (.asm). Follow this naming convention:

### Firstname Lastname HW5.asm

#### You may email me your work only if Moodle is not working.

You may ask clarifications on this assignment by attending a student session with the HelpDesk. Or, ask me after class or at my office.

## Good Luck!