

**Problem C7. (Unified Computers and programming)**

1. Write an algorithm to implement the subtraction operation for two positive integers in assembly language.

**Hint:** You have to convert one of the numbers into two's complement notation. How do you do that using only the operations available to you in assembly language?

2. Implement your algorithm in the assembly language described in the machine language handout. Test your implementation using the SimpleSim simulator. Turn in both a hard copy and an electronic copy of your code.