CSE 232
Systems Programming

2017 Spring

Labwork Assignment 2
Last Submission Time: End of lab hour

Purpose of This Labwork

The purpose of this Labwork is to teach you how to write an M6800 assembly language program with conditional blocks.

1. Implement a program in assembly language, which performs the following tasks:

   - Load accumulator A with x.
   - Compare accumulator A with y
   - If x>y, store 2x in $100, otherwise store x in $100
   - Use BGT instruction for conditional branch.

2. Look at the "BRANCH TEST" field for BGT instruction. Step line by line in your code you implemented in part 1 for two cases where one is x>y and the other is x<y. After execution of CMPA instruction, observe the contents in CCR. What are the bit fields? Work out the "BRANCH TEST" condition yourself to see whether it matches the execution result.

SUBMISSION

Enroll the CSE 232 COADSYS page if you haven't done yet. Save your assembly language program as **"nameLastNameID.asm"** and submit it using COADSYS.