

EE 308 – LAB 2**ASSEMBLY LANGUAGE PROGRAMMING AND 9S12 PORTS (WEEK 1)****Pre-Lab****Questions to answer before the lab:**

1. Hand-assemble the program in Figure 1 of Week 1; i.e., determine the op-codes the MC9S12 will use to execute this program.
2. How many cycles will this take program on the MC9S12? (Do not consider the swi instruction.)
3. How long in time will this take? (Note: the MC912 executes 24 million cycles per second.)
4. What will be the state of the N, Z, V and C bits after each instruction has been executed? (Ignore the swi instruction.)
5. What will be in address 0x2000 and 0x2001 after the program executed?