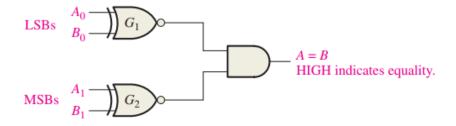
Lab Tasks

Lab Task#1:

- a) Design one-bit comparator Circuit on the Logic Works and develop truth table of it.
- b) Design two-bit comparator Circuit on the Logic Works and develop truth table of it.

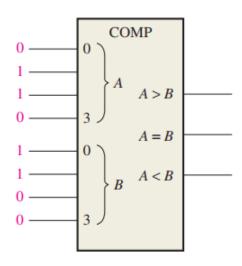
<u>Lab Task#2:</u> Apply each of the following sets of binary numbers to the comparator inputs in the following Figure, and determine the output by following the logic levels through the circuit.

- a) 10 and 10
- b) 11 and 10



Implement on the Logic Works as well

<u>Lab Task#3:</u> Implement on the Logic Works using 74HC85, and determine the A = B, A > B, and A < B outputs for the input numbers shown on the comparator in the following Figure:



<u>Lab Task#4:</u> Use 74HC85 comparators to compare the magnitudes of two 8-bit numbers. Show the comparators with proper interconnections.

