## Maximum Value

Given variables $A$ and $B$, each holding an 8 -bit signed 2 's complement number. Write a program to find the maximum value and put into variable $C$. Example if $A>B$ then $C=A$.
$\mathrm{C}=\operatorname{Max}(\mathrm{A}, \mathrm{B})$
Option C: If-then-else statement restructured to if-then with guess. Result immediately stored in SRAM.
Simulation of the unsigned problem $C=\operatorname{Max}(32,16)$, where the answer should equal $32(0 \times 20)$.


Figure 1: Start of Maximum program with variable A initialized to $0 \times 20\left(32_{10}\right)$


Figure 2: variable B is initialized to $0 \times 10\left(16_{10}\right)$


Figure 3: End of Maximum program with variable C containing $0 \times 20\left(32_{10}\right)$

