

Assignment 1

10) $AR \leftarrow AR + BR$

$AR \leftarrow 11110001$

$$\begin{array}{r} 111111 \\ 11110010 + \\ \hline 11111111 \\ 111110001 \end{array}$$

$CR \leftarrow CR \wedge DR, BR \leftarrow BR + 1$

$CR \leftarrow 11010001, 10000000$

$$\begin{array}{r} 1111 \\ 10111001 + \\ \hline 11101010 \\ 110100011 \end{array}$$

$BR = \begin{array}{r} 111111 \\ 111111 + 1 \\ \hline 10000000 \end{array}$

.. $AR \leftarrow 001010101$

$$\begin{array}{r} 1110010 \\ 10111001 + \\ \hline 110101011 \\ 001010100 + 1 \end{array}$$

12) the number of lines in the bus is equal to the number of bits in the Register ~~Register~~