4.16:

V_{in}	Result
0.1	Low
1.2	Low
2.0	Indeterminate
3.5	High
4.5	High

4.14: a) pins D12 & 13
b) pins D8, 9, 10, & 11
c) pins A0 & A1
d) pins D5 & 6
e) the 5V & GND pins

4.8: 1011 + 0010 = 1101

00011101 + 01001111 = 01101100

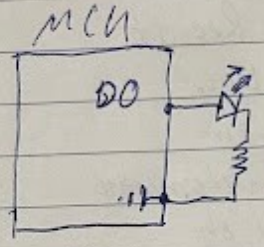
$$\begin{array}{r} 1010 \\ -\ 0011 \\ \hline 0111 \end{array} \rightarrow 1010 - 0011 = 0111$$

00101001 − 00010101 = 00010100

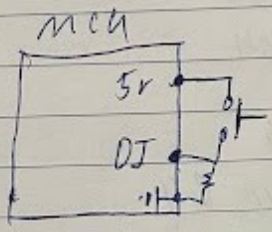
$$\begin{array}{r} 00101001 \\ -\ 00010101 \\ \hline 00010100 \end{array}$$

4.19

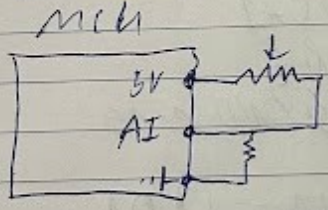
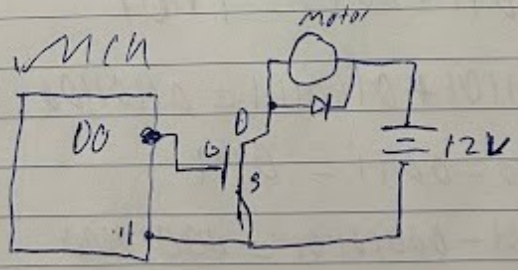
a)



b)



c)



4.18