

$$1 \times 2^5 + 2^4 + 2^3 + 2^0 = 1 \times 16 + 16 + 8 + 1 = (40)_{10}$$

$$\begin{array}{cccc} 11 & 00 & 100 & 1 \\ \vee & \vee & \vee & \vee \\ 4 & 4 & 4 & 1 \end{array}$$

-2

$$1 \text{ step} \rightarrow \begin{array}{cc} 00 & 110 \\ \vee & \vee \\ 0 & 6 \end{array} \xrightarrow{2^{\text{nd}}}$$

+4

$$\text{2F}$$

$$\begin{array}{ccc} 00 & 110 & 111 \\ \vee & \vee & \vee \\ 0 & 6 & 7 \end{array}$$

+4

$$1101001 \text{ (C)}$$

$$110 = 6 \text{ +1 } 4, 9$$

$$01001 = 9 \text{ -5}$$

$$00110111 = 4, 7 \text{ (D)}$$

$$00110 = 6$$

-6

$$111 = 7$$