Let $H=\left[\begin{array}{c}\begin{matrix}\begin{matrix}1&0&0\\0&1&1\end{matrix}\\\begin{matrix}1&1&1\\1&0&0\\0&1&0\end{matrix}\end{matrix}\\\begin{matrix}0&0&1\end{matrix}\end{array}\right]$ be a parity check matrix. Determine the $\left(3,6\right)$ group code function $e\_{H}:B^{3}\rightarrow B^{6}$.