Let $H=\left[\begin{matrix}\begin{matrix}0&1&1\\0&1&1\end{matrix}\\\begin{matrix}1&0&0\\0&1&0\\0&0&1\end{matrix}\end{matrix}\right]$ be a parity check matrix. Determine the $\left(2,5\right)$ group code function $e\_{H}:B^{2}\rightarrow B^{5}$.