## DSC TIET-Basics of Quantum Computing

## SWAP GATE

Decomposing the SWAP gate into a combination of CNOT gates.

$$\begin{array}{c} \text{SWAP} \cdot \begin{bmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \\$$

## Hermitian

Vnitary