

o/p

VCC

i/p

A

B

$\overline{A+B}$

$A+B$

$A+B$

$\overline{A+B}$

Universality of NAND gate
74LS00

$$A \times A = A$$

$$\overline{(\overline{A+B}) + (\overline{A+B})} = \overline{\overline{A+B}} = A+B$$