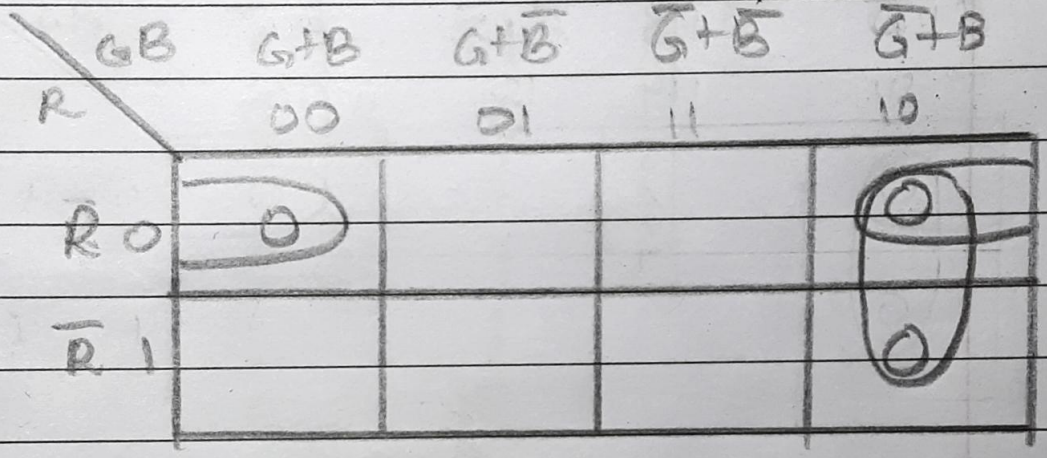
Design Procedure and Circuit Diagram

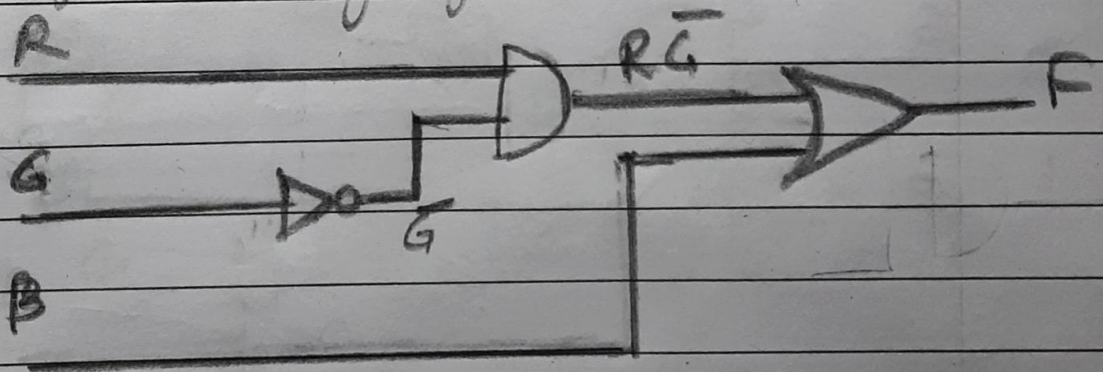
① = open (on)

~~①~~ = closed (off)



$F = (R+B)(\bar{G}+B)$ (POS form)

(a) Using basic logic gates :-



$F = R\bar{G} + B$

$\overline{F} = \overline{R\bar{G}+B} = \overline{R\cdot\bar{G}}\cdot\overline{B}$

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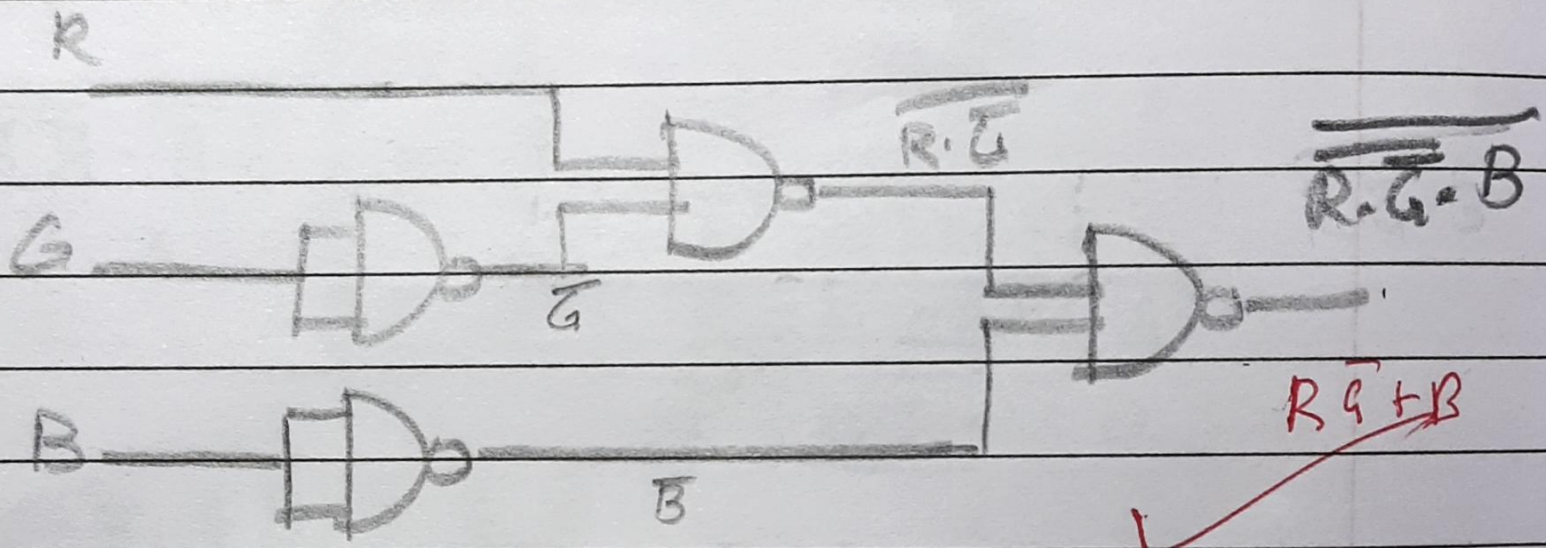
(b) Using NAND.



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