



$$V_{out} = V_{in} \cdot \frac{R2}{R1 + R2}$$

$$V_{in} = Tx_{arduino} = 5V \quad R1 = 4.7k\Omega$$

$$V_{out} = Rx_{HC06} \quad R2 = 10k\Omega$$

$$Rx_{HC06} = 5V \cdot \left(\frac{10k\Omega}{4.7k\Omega + 10k\Omega} \right) = 3.4V$$