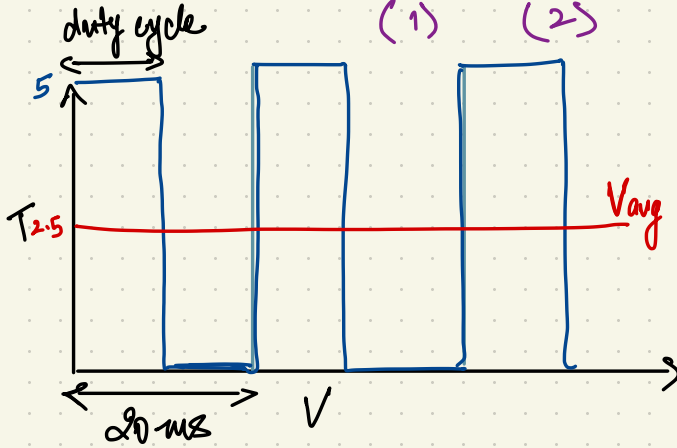


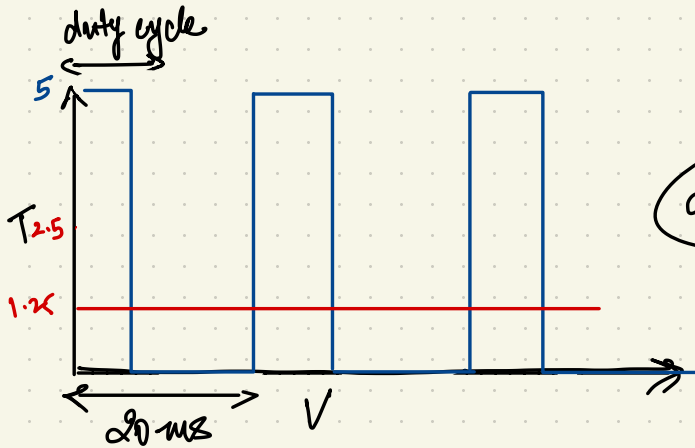
PWM

using this, we can create analog voltages from digital pins

either ON or OFF
(1) (2)



50%
duty cycle



20% duty cycle

CODE

analogWrite (Pin, —);

$$V_{out} = \left(\frac{\text{val}}{\underline{255}} \right) \times 5$$

\downarrow
max

\rightarrow max. voltage of arduino.

$$\text{Duty cycle} = \left(\frac{\text{val}}{255} \right) \times 100$$