Pulse width modulation

A PWM signal stays on for a particular time and then stays off for the rest of the period. What makes this PWM signal special and more useful is that we can set for how long it should stay on by controlling the duty cycle of the PWM signal.

The percentage of time in which the PWM signal remains HIGH (on time) is called as duty cycle. If the signal is always ON it is in 100% duty cycle and if it is always off it is 0% duty cycle.

Assigning different values of duty cycle to different values input we can get different values of output without varying the values of amplitude

Input	**Duty cycle**
1	10%
2	20%
3	30%
4	40%
5	50%
…	……..