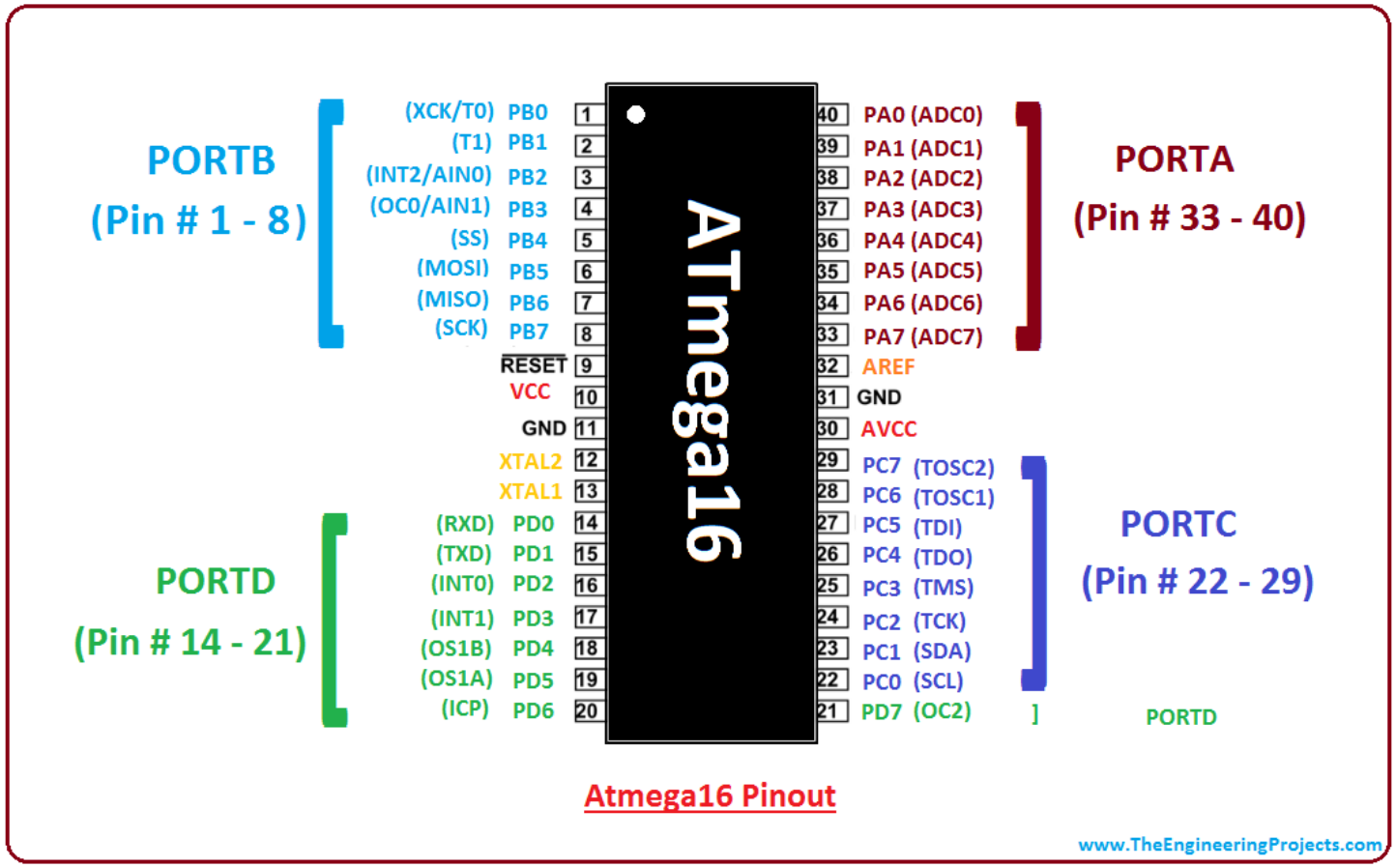
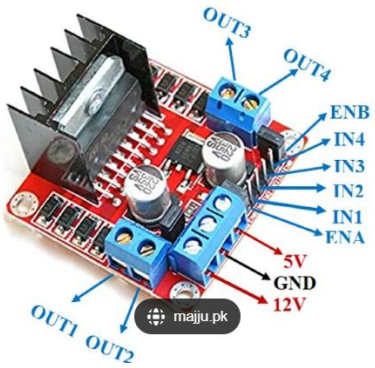


Atmega16 Pinout

Tasks:-

→Motor Driver L298 (master + slave)



Create motor driver

Use pins

ENA → PB3 (don't access this pin by code)

ENB → PB3 (don't access this pin by code)

IN4 → PB7

IN3 → PB6

IN2 → PB5

IN1 → PB4

→UART to operate Bluetooth (master)

Please obey the datasheet of Bluetooth (#stop bits, baud rate, parity check, Data length).

→UART to operate IR receiver (slave)

Use baud rate 1200

2 stop bits

Data length 8

even parity check

→Timer 0, driver to operate FPWM mode (master + slave)

Implement code to operate fast pwm mode

→LEDs, driver to control 4 leds (master + slave)

Pins A0, A1, A2, A3

Led Active high

→Timer 2, (master)

Generate frequency 38 kHZ on pin “D7” with 0.5 duty cycle,

use CTC / normal mode

→GIE (master + slave)

Driver to enable and disable global interrupt

→Timer 1, (master + slave)

Call an ISR every 50 milli second

use CTC / normal mode
