

# MOTOR SPEED CONTROL USING HEX KEYPAD

## ABSTRACT

PWM or pulse width modulation is an effective method used for controlling the power across devices like motor, light etc. In PWM method the power across the load is controlled by varying the duty cycle of the drive signal. More the duty cycle more power is delivered across the load and less the duty cycle, less power is delivered across the load. A hex keypad is used for controlling the speed. In the circuit the motor is controlled by the keypad and all the instructions are displayed on LCD. Depending upon the input from the keypad, option to run the motor in different duty cycles is given by Arduino UNO. The user is given choice to rotate the motor in clockwise or anticlockwise. Both the messages are displayed on the 16x2LCD.

## BLOCK DIAGRAM

