PWM For DC Motor Speed Control

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26-02-2020

Outline

Introduction

- Pulse width modulation (PWM) is a method of reducing the average power delivered by an electrical signal, by effectively chopping it up into discrete parts.
- Pulse Width Modulation (PWM) is a commonly used technique for generally controlling DC power to an electrical device.

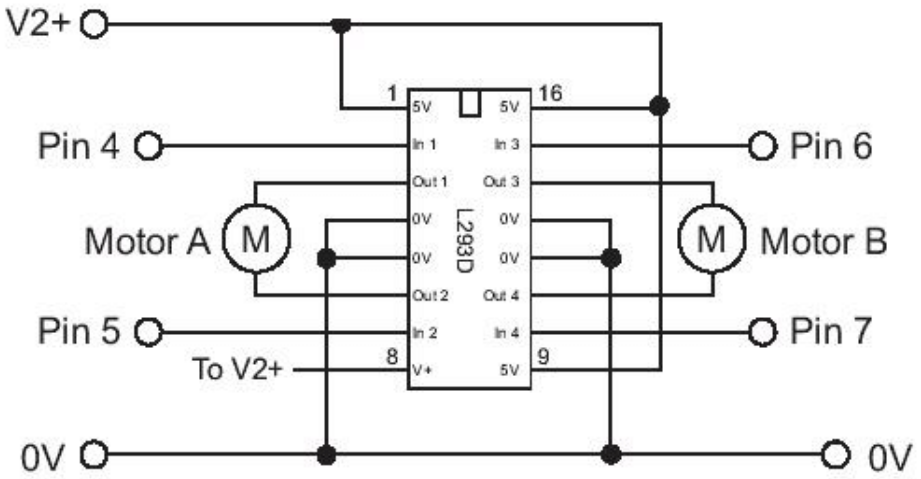
Required Components

- DC Motor
- L293D motor driver IC
- Icoboard
- Jumper wires
- 9v Battery

Working

- The code for generating PWM is written in verilog.
- Duty cycle of the output signal is controlled by giving input from python.i.e., whether to increase or decrease the duty cycle.
- The output of verilog code is given to DC motor through L293D IC.

Pin diagram OF L293D IC



Thank You