International Islamic University Islamabad

Faculty of Engineering &Technology

Department of Electrical Engineering & Computer Engineering

Micro Controller & Micro Processor Lab

Open-Ended Lab Report

Group Members: (Name & Registration No.)

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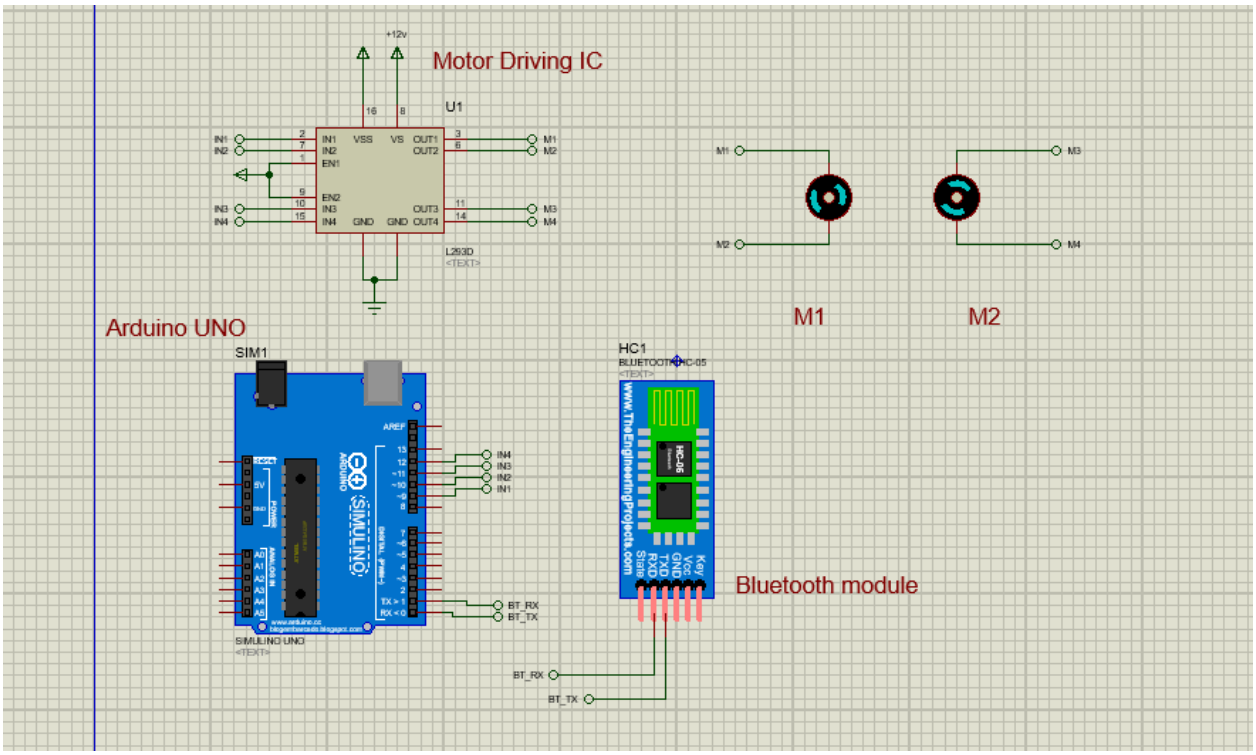
Introduction:

This project is named Arduino Robot Car. The basic working mechanism of the Robot car is H bridge. An H-bridge can Reverse the polarity provided to a component And hence by changing the polarity we can control the DC motor which determine the motion of the car. And IC is used L298N this ic control both DC motor by using H Bridge

Simulation:



Working Operation:

Starting from each step we take to approach and understand this project batter. How are we going to control the car? How will the car know when to move where to move and when to stop ?
Well we can communicate with our car by using a Bluetooth Module **(HC 05)** Phone via Bluetooth to the controller
Microcontroller then interrupts the data and sends the appropriate signal to the **L298N** Driver Module.

Coding approach:

We begin by initializing the pin that are going to be used to send receive data form Bluetooth and the pins that are going to control the L298N driver. Then we begin the serial communication After that simple ‘if’ statement tell the L298N what to do if a certain condition is met.

Hardware: