VOICE CONTROLLED BOT

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Abstract - A ToyCar is controlled using Bluetooth and Google Voice Recognition Software.

1 Hardware Setup

1.1 Assemble the motor, chassis, and wheels to build the toy car.

1.2 Stick the breadboard to the chassis of the toy car.

1.3 Stick a 9V battery to the breadboard and connect the positive and negative terminals to extreme ends of the breadboard.

1.4 Provide 9V to the supply pin of the Aurdino.

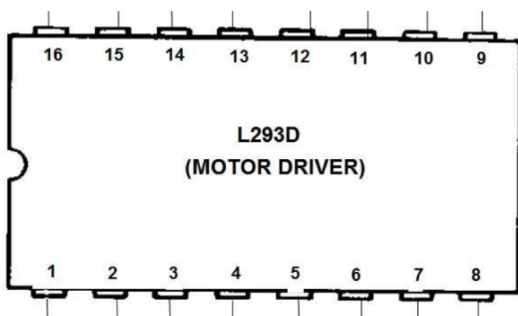1.5 Plug the L293D motor driver IC in Fig 1.6 on the breadboard.

Fig. 1.6

Power	L293D			
9V	1	8	9	16
GND	4	5	12	13

Arduino	D2	D3	D4	D5
L293D	2	7	10	15

Motor	+		-	
L293D	3	11	6	14

TABLE 1.7

Arduino	D0	$\frac{2}{3}$D1	5V	GND
HC05	TX	RX	Vcc	GND

TABLE 1.8

1.7 Connect the L293D pins according to Table 1.7

1.8 Connect HC-O5 pins according Table 1.8

2 Implementation

2.1 Dump the following code in Arduino using its IDE. https://github.com/MaahiKhazi/Voice-Controlled-Bot/blob/main/voicecontrolbot.ino

2.2 Install Google API "Arduino Bluetooth Controller" using google play-store.

2.3 Open the app and connect to HC-05.

2.4 Open voice control section in the app and tap to give the following commands.
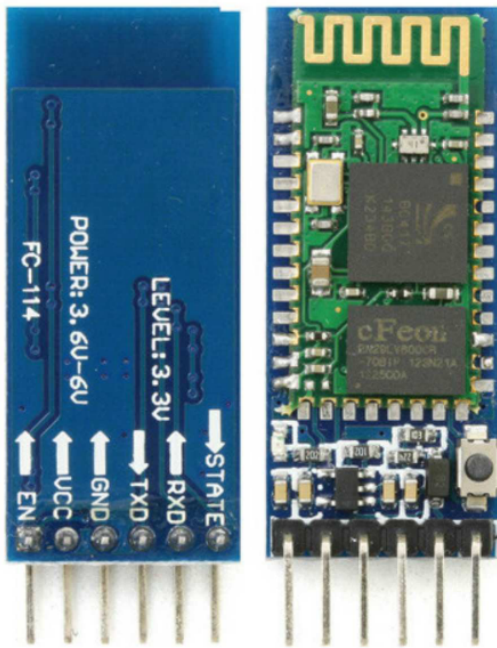
Left, Right, Forward, Back and Stop

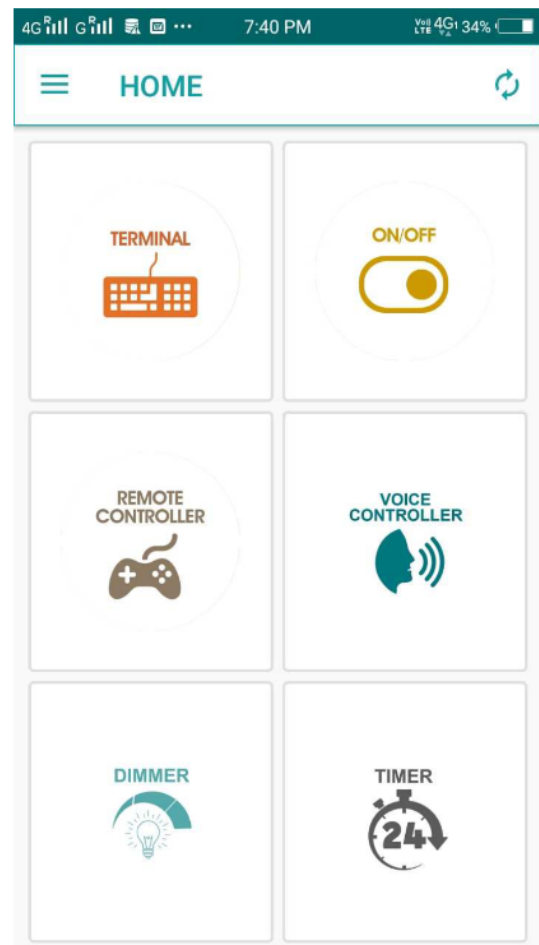# VOICE CONTROLLED BOT

Fig. 1.8: HC05 Bluetooth module

Fig. 2.2