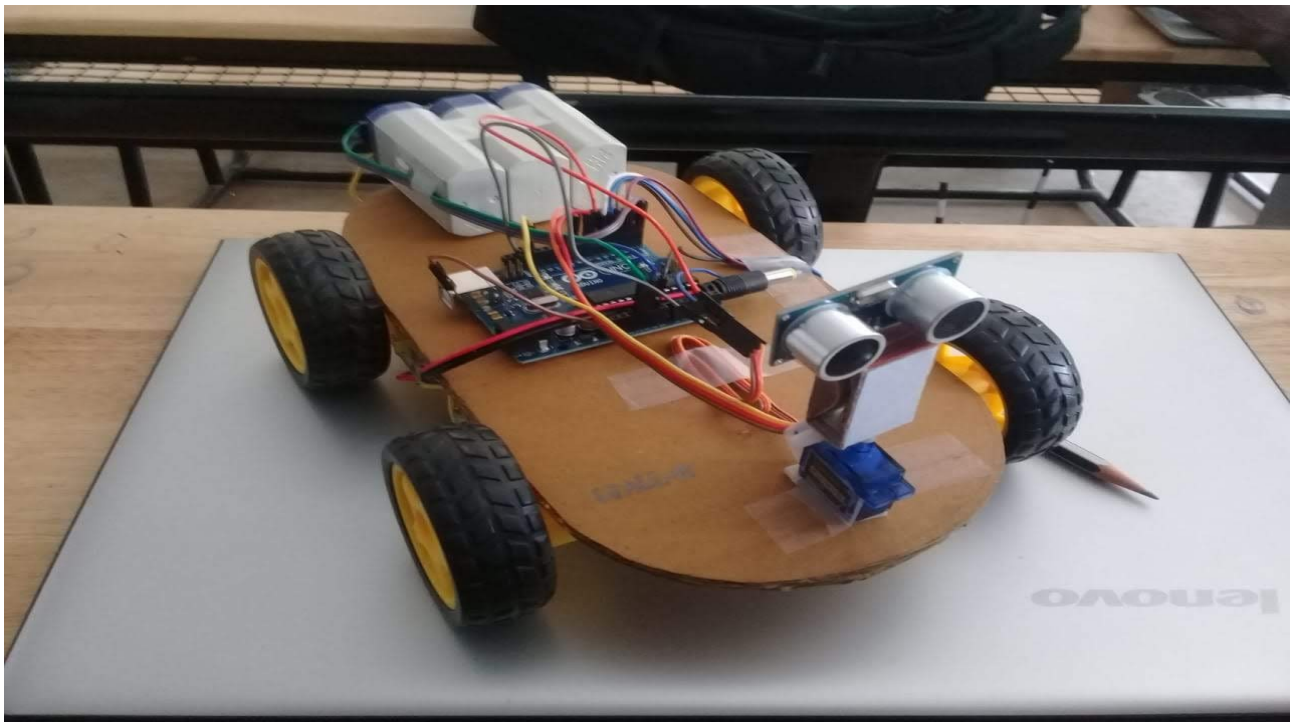
Bluetooth Arduino Car

The Car is based on arduino microcontroller that is connected through a bluetooth module HC-05 and operates on 12V battery . The car can be operated through any app that connects to the hc-05 module . the modules works on either 3.3V or 5V that can be given to it from arduino 5v output. The microcontroller is programmed to receive any digital inputs sent to it through bluetooth from phone like numbers or alphabets and then with respects to the recieved inputs the if else command will be executed and car will move .
The car can move forward , backward , move left or right , all these are done by a H-Bridge motor controller that can control 2 motors at a time . The motor controller takes input from the the microcontrollers and the with respect to received signals it makes the motor to move forward or backward . The motor controller needs atlest 12V of dc supply to makes 2 motors work fulently. The code was written in done in Arduino C .

Obstacle Avoiding Car

All the configurations regarding the moving of car is same as above .
Here Arduino is receivibg the signals from an Ultrasonic Module. The module is udes to measure th distance of any objec that comes infront of it. The code is written in a wayt that if any object or wall comes infront of car within <15Cm the car will stop at that point and then it will rotate in left and right at angles of 90 with help of servo motor and then in the where the objects is far , in that direction car will turn and start moving forward (if a wall is in left direction at 50cm and another obstacle in right direction at 60cm then it will turn in right direction)till the next obstacle then it repeats the procress .

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