#include <SPI.h>

#include <Wire.h>

#include <Servo.h>

#define trigpin 5//set trigpin

#define echopin 6//set echopin

Servo myservo;// declare servo name type servo

int duration, distance;//declare variable for unltrasonic sensor

bool lesscoffee = false;

void setup() {

Serial.begin(9600);

pinMode(trigpin, OUTPUT);

pinMode(echopin, INPUT);

myservo.attach(2);// attach your servo

myservo.writeMicroseconds(1500);

// put your setup code here, to run once:

}

void loop() {

//ultrasonic code

digitalWrite(trigpin,HIGH);

\_delay\_ms(500);

digitalWrite(trigpin, LOW);

duration=pulseIn(echopin,HIGH);

distance=(duration/2)/29.1;

if(distance >= 15)// if ultrasonic sensor detects an obstacle less than 20cm in 90 degree angle.

{

int servomove = map(100,-90,90,0,170);

myservo.write(servomove); //servo rotates at full speed to the right

delay(6);

}

Serial.print("cm"); //print distance unit cm

Serial.println(distance);//distance

}