ARDUINO CODE

#include <Servo.h>

Servo servo;

int const trigPin1 = 6;

int const echoPin1 = 5;

int const trigPin2 = 9;

int const echoPin2 = 8;

int const led1 = A1;

int const led2 = A2;

int const led3 = A3;

void setup ()

{

pinMode (trigPin1, OUTPUT);

pinMode (echoPin1, INPUT);

pinMode (trigPin2, OUTPUT);

pinMode (echoPin2, INPUT);

pinMode(led1, OUTPUT);

pinMode (led2, OUTPUT);

pinMode (led3, OUTPUT);

servo.attach (3);

Serial.begin (9600);

}

void loop ()

{

int duration1, distance1, duration2, distance2;

digitalWrite (trigPin1, HIGH);

delay (1);

digitalWrite (trigPin1, LOW);

duration1 = pulseIn (echoPin1, HIGH);

distance1 = (duration1/2)/29.1;

if (distance1 <=50 && distance1 >=5)

{

servo.write(50);

delay (3000);

}

else

{

servo.write (160);

}

digitalWrite (trigPin2, HIGH);

delay (1);

digitalWrite (trigPin2, LOW);

duration2 = pulseIn (echoPin2, HIGH);

distance2 = (duration2/2)/29.1;

if (distance2 >=16)

{

digitalWrite (led1, HIGH);

digitalWrite (led2, LOW);

digitalWrite (led3, LOW);

}

if (distance2 >=8 && distance2<16)

{

digitalWrite (led1, LOW);

digitalWrite (led2, HIGH);

digitalWrite (led3, LOW);

}

if (distance2 >=0 && distance2<8)

{

digitalWrite (led1, LOW);

digitalWrite (led2, LOW);

digitalWrite (led3, HIGH);

}

}