Batch 1

PHASE 1

HIGHWAY LIGHTS

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Code:

#include<LiquidCrystal.h>

int LS=1;

int trig=6,echo=7;

int l1=A2,l2=A3;

int rs=16, en=17, d4=13, d5=12, d6=11,d7=10;

LiquidCrystal lcd(rs,en,d4,d5,d6,d7);

void setup() {

pinMode(l2,OUTPUT);

pinMode(LS,INPUT);

pinMode(echo,INPUT);

pinMode(trig,OUTPUT);

//pinMode(A3,OUTPUT);

lcd.begin(16,2);

Serial.begin(9600);

}

void loop() {

int a,d;

int b= digitalRead(LS);

lcd.setCursor(0,0);

lcd.print("Distance=");

digitalWrite(trig,LOW);

delay(50);

digitalWrite(trig,HIGH);

delay(50);

digitalWrite(trig,LOW);

a=pulseIn(echo,HIGH);

d=0.0347\*a/2;

Serial.println(d);

Serial.println(b);

lcd.print(d);

delay(500);

lcd.clear();

// put your main code here, to run repeatedly:

if(b==0){

if(d<=50){

digitalWrite(l2,HIGH);

delay(5000);

}

}

else{

digitalWrite(l2,LOW);

}

digitalWrite(l1,LOW);

}