Assignments

1. Write a traffic light system code void setup()

{

pinMode(8,OUTPUT); pinMode(9,OUTPUT); pinMode(10,OUTPUT); digitalWrite(10,LOW);

}

void loop() {

digitalWrite(8,HIGH); delay(10000); digitalWrite(8,LOW); delay(1000); digitalWrite(9,HIGH); delay(2000); digitalWrite(9,LOW); delay(1000); digitalWrite(10,HIGH); delay(5000); digitalWrite(10,LOW); delay(1000);

}

1. Street lighting system code #include <Mouse.h>

const int trigpin= 9; const int echopin= 10; long duration;

int distance; void setup(){

pinMode(trigpin,OUTPUT); pinMode(echopin,INPUT); Serial.begin(9600);

}

void loop(){ digitalWrite(trigpin,HIGH); delayMicroseconds(10); digitalWrite(trigpin,LOW); duration=pulseIn(echopin,HIGH); distance = duration\*0.034/2; Serial.println(distance);

}

1. distance measurement system using ultrasonic

#define TRIGGER\_PIN 6 // Arduino pin tied to trigger pin on the ultrasonic sensor. #define ECHO\_PIN 7 // Arduino pin tied to echo pin on the ultrasonic sensor.

#define MAX\_DISTANCE 200 // Maximum distance we want to ping for (in centimeters). Maximum sensor

distance is rated at 400-500cm. void setup()

{

Serial.begin(9600); // Open serial monitor at 9600 baud to see ping results.

}

void loop()

{

delay(50); // Wait 50ms between pings (about 20 pings/sec). 29ms should be the shortest delay between

pings.

Serial.print(“Ping: “);

Serial.print(sonar.ping\_cm()); // Send ping, get distance in cm and print result (0 = outside set distance range)

Serial.println(“cm”);

}

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