ULTRASONIC SENSOR INTERFACING WITHN ARDUINO

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This program is to test Ultrasonic Sensor interfacing with Arduino

Connections

Connect VCC of Ultrasonic Sensorsensor to +5V of Arduino board

Connect GND of Ultrasonic SensorSensor to GND of Arduino board

Connect Trig of Ultrasonic Sensorsensor to Digital pin 9 of Arduino board

Connect Echo Pin of Ultrasonic Sensorsensor to Digital pin 10 of Arduino board

Upload the code and check in Serial Monitor.

\*/ #define trigPin 9 // Arduino Digital pin 9 is used for trigpin of sensor

#define echoPin 10 // Arduino Digital pin 10 is used for echopin of sensor

long duration; // Variables for measuring duration and distance from sensor

int distance;

void setup()

{

pinMode(trigPin, OUTPUT); // Sets the trigPin as an Output in Arduino

pinMode(echoPin, INPUT); // Sets the echoPin as an Input in Arduino

Serial.begin(9600); // Starts the serial communication with 9600 buad rate

} void loop()

{

digitalWrite(trigPin, LOW); // Clears the trigPin

delayMicroseconds(2);

digitalWrite(trigPin, HIGH); // Sets the trigPin on HIGH state for 10 micro seconds

delayMicroseconds(10);

digitalWrite(trigPin, LOW);

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duration = pulseIn(echoPin, HIGH); // Reads the echoPin,

distance = duration \* 0.034 / 2; // Calculating the distance

Serial.print("Distance: "); // Prints the distance on the Serial Monitor

Serial.print(distance);

Serial.println("cm");

delay(1000);

}