**EXP-4**

**Ultrasonic sensor to measure distance**

#define trigpin 11

#define echopin 10

long duration;

int distance;

void setup() {

Serial .begin(9600);

pinMode(trigpin, OUTPUT);

pinMode(echopin, INPUT);

}

void loop() {

delayMicroseconds(2);

digitalWrite(trigpin, HIGH);

delayMicroseconds (20);

digitalWrite(trigpin, LOW);

duration = pulseIn(echopin,HIGH);

distance = duration \*0.017;

Serial.print(“duration=" );

Serial.print(distance );

Serial.println("cm");

delay(100);

}

