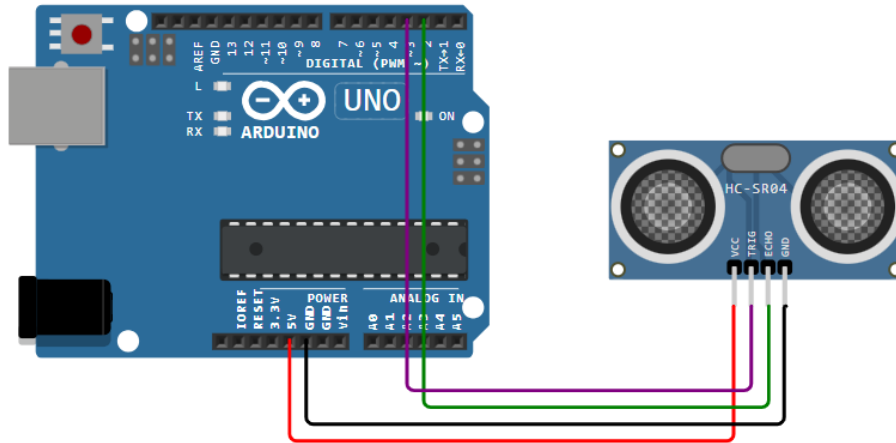


write a Arduino program for implement Distance measure using Ultrasonic sensor .



### Arduino Code

```
#define echoPin 2    // Attach pin D2 Arduino to pin Echo
#define trigPin 3    // Attach pin D3 Arduino to pin Trig

long duration;       // Time taken for the pulse to reach receiver
int distance;        // Calculated distance

void setup() {
    pinMode(trigPin, OUTPUT);    // Set trigPin as OUTPUT
    pinMode(echoPin, INPUT);     // Set echoPin as INPUT

    Serial.begin(9600);          // Start serial communication
    Serial.println("Distance measurement using Arduino Uno.");
    delay(500);                  // Short delay
}

void loop() {
    digitalWrite(trigPin, LOW);
    delayMicroseconds(2);        // Wait for 2 microseconds

    digitalWrite(trigPin, HIGH); // Turn on Trigger to generate pulse
    delayMicroseconds(10);       // Keep the trigger "ON" for 10 microseconds
```

```
digitalWrite(trigPin, LOW);    // Turn off pulse trigger
```

```
duration = pulseIn(echoPin, HIGH); // Time taken by pulse to reach receiver
```

```
distance = duration * 0.0344 / 2;    // Calculate distance using time
```

```
Serial.print("Distance: ");
```

```
Serial.print(distance);    // Print distance in serial monitor
```

```
Serial.println(" cm");
```

```
delay(100);    // Short delay
```

```
}
```