```
/*
        This code should work to get warning cross the buzzer when something be closer than 0.5
meter
        Circuit is ultrasonic sensor and buzzer +5v and Arduino uno is used
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*/
// Define pins for ultrasonic and buzzer
int const trigPin = 10;
int const echoPin = 9;
int const buzzPin = 2;

void setup()
{
        pinMode(trigPin, OUTPUT); // trig pin will have pulses output
        pinMode(echoPin, INPUT); // echo pin should be input to get pulse width
        pinMode(buzzPin, OUTPUT); // buzz pin is output to control buzzering
}

void loop()
{
        // Duration will be the input pulse width and distance will be the distance to the obstacle in
centimeters
        int duration, distance;
        // Output pulse with 1ms width on trigPin
        digitalWrite(trigPin, HIGH);
        delay(1);
        digitalWrite(trigPin, LOW);
        // Measure the pulse input in echo pin
        duration = pulseIn(echoPin, HIGH);
        // Distance is half the duration devided by 29.1 (from datasheet)
```

```
        distance = (duration/2) / 29.1;

        // if distance less than 0.5 meter and more than 0 (0 or less means over range)
    if (distance <= 50 && distance >= 0) {

        // Buzz

        digitalWrite(buzzPin, HIGH);

    } else {

        // Don't buzz

        digitalWrite(buzzPin, LOW);

    }

    // Waiting 60 ms won't hurt any one

    delay(60);

}
```