Experiment 11: Develop a program to a water level detection system using Ultrasonic sensor.

Pin Connections:

Component		**ESP32 Pin**	***Arduino UNO Pin***
Ultrasonic	**TRIG**	GPIO 5	*D9*
	ECHO	GPIO 18	*D10*

Code:

```
const int trigPin = 5;
const int echoPin = 18;
void setup() {
  Serial.begin(115200);
  pinMode(trigPin, OUTPUT);
  pinMode(echoPin, INPUT);
}
long getDistance() {
  digitalWrite(trigPin, LOW);
  delayMicroseconds(2);
  digitalWrite(trigPin, HIGH);
  delayMicroseconds(10);
  digitalWrite(trigPin, LOW);
  long duration = pulseIn(echoPin, HIGH);
  long distance = duration * 0.034 / 2;
  return distance;
}
void loop() {
  long distance = getDistance();
  Serial.print("Water Level Distance: ");
  Serial.print(distance);
  Serial.println(" cm");
  delay(1000);
}
```