Assignment -4

Python Programming

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Question-1:

write a code and connections in wokwi for ultrasonic sensor

Solution:

```
#define ECHO PIN 2
#define TRIG_PIN 3
void setup() {
  Serial.begin(115200);
 pinMode(LED BUILTIN, OUTPUT);
 pinMode(TRIG PIN, OUTPUT);
 pinMode (ECHO PIN, INPUT);
float readDistanceCM() {
  digitalWrite(TRIG PIN, LOW);
  delayMicroseconds(2);
  digitalWrite(TRIG PIN, HIGH);
  delayMicroseconds (10);
  digitalWrite(TRIG_PIN, LOW);
  int duration = pulseIn(ECHO_PIN, HIGH);
  return duration * 0.034 / 2;
void loop() {
  float distance = readDistanceCM();
  bool isNearby = distance < 100;</pre>
  digitalWrite(LED_BUILTIN, isNearby);
  Serial.print("Measured distance: ");
  Serial.println(readDistanceCM());
  delay(100);
```

Wokwi link:

https://wokwi.com/projects/345781784553718355

output:



