Assignment -4

Python Programming

Assignment Date	24 October 2022
Student Name	Mr.MOHAN P
Student Roll Number	19BEC4088
Maximum Marks	2 Marks

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:



