Assignment -4

Python Programming

Assignment Date	24 October 2022
Student Name	Ms. Swetha.K
Student Roll Number	713519CEEC040
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:



