#### Assignment -4

#### **Python Programming**

Assignment Date	24 October 2022
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:



