Assignment -4

Python Programming Assignment Date
Student Name
Student Roll Number
Maximum Marks

24 October 2022 Mr.Gughan.G 713519CEEC011 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;
digitalWrite(LED_BUILTIN, isNearby);
Serial.print("Measured distance: ");
```

```
Serial.println(readDistanceCM());
delay(100);
}
```

Wokwi link:

https://wokwi.com/projects/345781784553718355

output:



