Assignment -4

Python Programming

Assignment Date	24 October 2022
Student Name	Dharmasastha
Team ID	PNT2022TMID36861
Maximum Marks	2 Marks

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:



