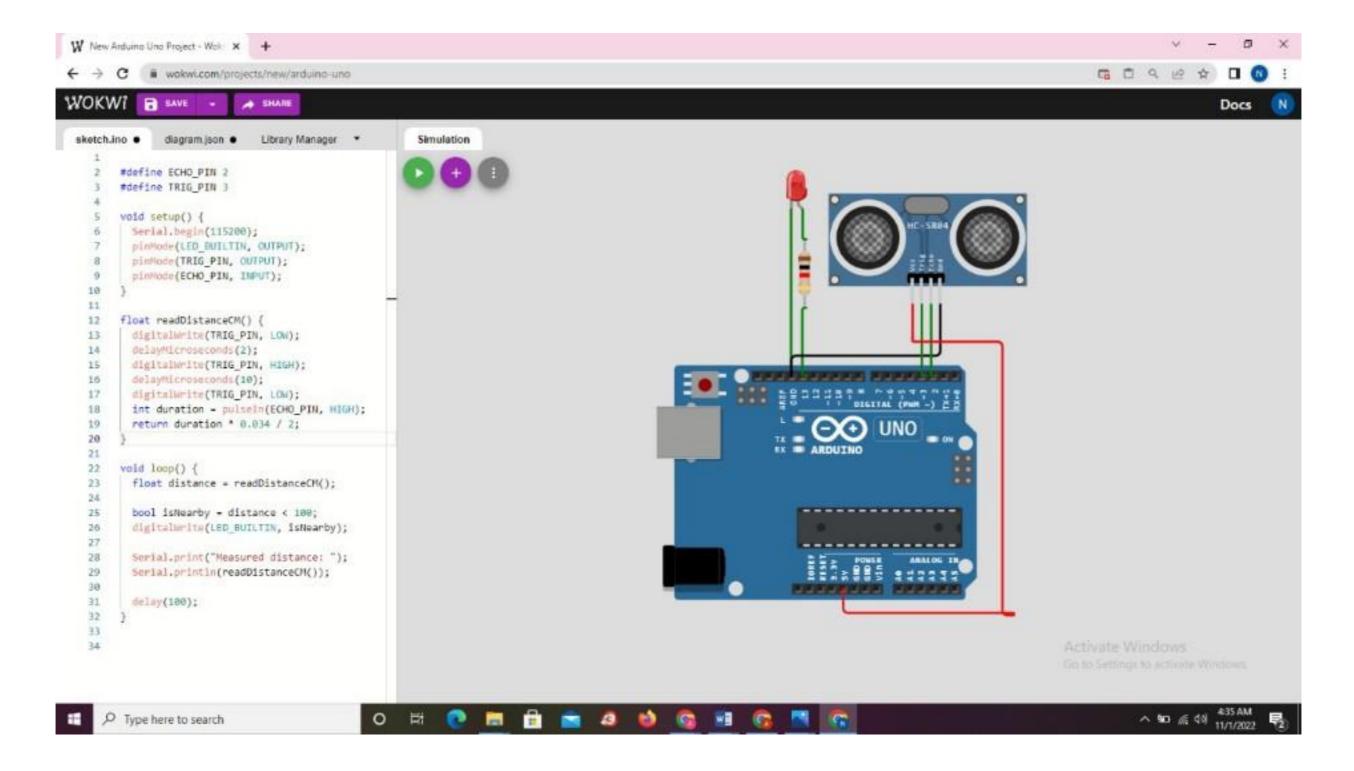
### **ASSIGNMENT-4**

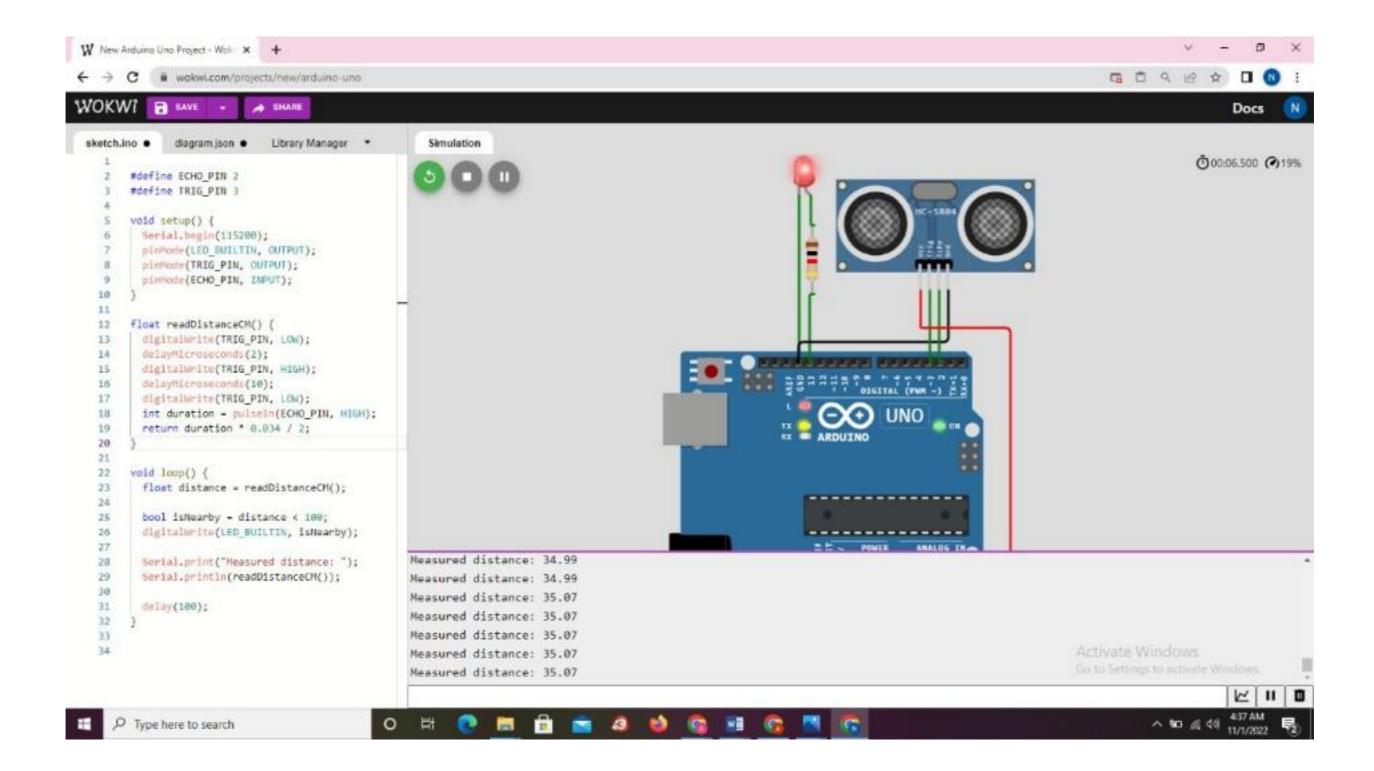
## Code:

```
#defineECHO_PIN2
#defineTRIG_PIN3
voidsetup(){
 Serial.begin(115200);
 pinMode(LED_BUILTIN,OUTPUT;
 pinMode(TRIG_PIN,OUTPUT);pin
Mode(ECHO_PIN,INPUT);
float readDistanceCM()
{digitalWrite(TRIG_PIN,LOW);
 delayMicroseconds(2);
 digitalWrite(TRIG_PIN,HIGH);
 delayMicroseconds(10);
 digitalWrite(TRIG_PIN,LOW);
intduration=pulseIn(ECHO_PIN,HIGH);
 returnduration*0.034/2;
voidloop(){
floatdistance=readDistanceCM();
 boolisNearby=distance<100;
 digitalWrite(LED_BUILTIN, is Nearby);
 Serial.print("Measured distance:");
 Serial.println(readDistanceCM());
 delay(100);
```

# Solution:



### Solutionrun:



#### **OUTPUT:**

