

# ASSIGNMENT-1

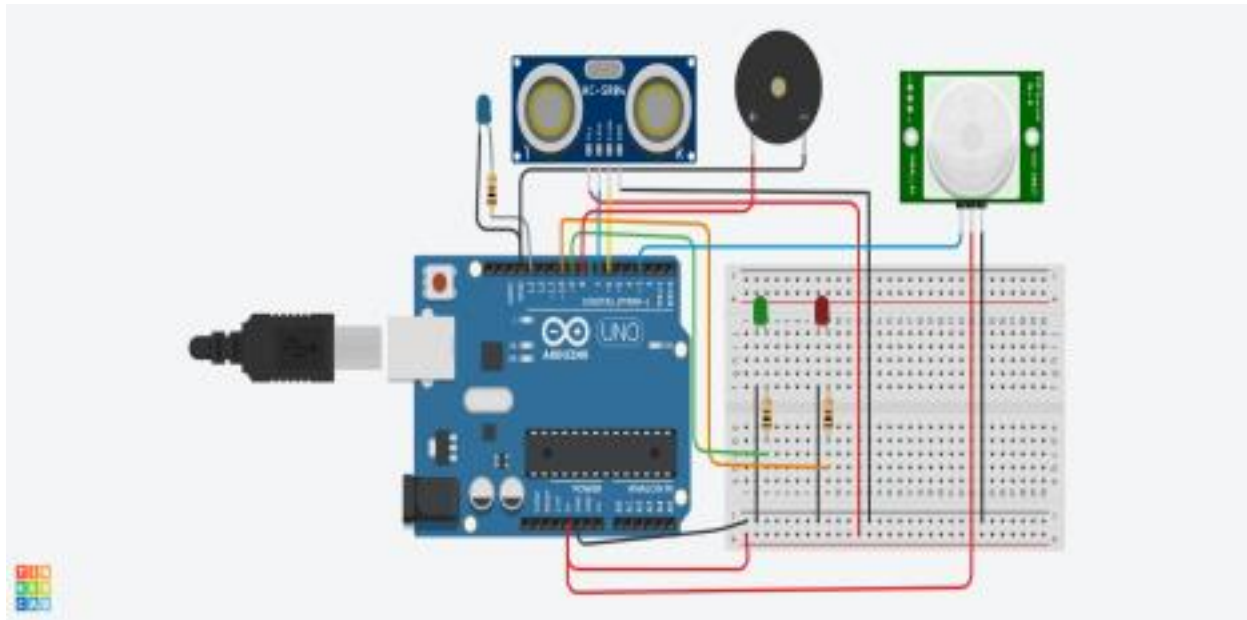
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## QUESTION:

Build a smart home in Thinkercad with 2 sensors, an Led, buzzer and submit it.



## CODE:

```
#define Trigpin 7
#define Echopin 8
#define low_led 9
#define high_led 10

float distance;
int duration;
int ll = 700;

void setup() {
  pinMode (Trigpin, OUTPUT);
  pinMode (low_led, OUTPUT);
  pinMode (high_led, OUTPUT);
```

```
pinMode (Echopin, INPUT);
Serial.begin(9600);
Serial.println ("Welcome To Distance Meter");
Serial.println ("Coded By Jevins Annson");
digitalWrite (low_led, LOW);
digitalWrite (high_led, LOW);
}
void loop() {
digitalWrite(Trigpin, LOW);
delayMicroseconds(2);
digitalWrite(Trigpin, HIGH);
delayMicroseconds(10);
digitalWrite(Trigpin, LOW);
duration = pulseIn(Echopin, HIGH);
distance = duration * 0.034 / 2;
delay (11);
Serial.println (" ");
Serial.print ("Distance = ");
Serial.print (distance);
Serial.print (" CM");
Serial.println (" ");
if (distance>=30)
{
Serial.println ("Nobody Is Infront Of the
Sensor"); digitalWrite (low_led, HIGH);
delay (500);

digitalWrite (low_led, LOW);
delay (500);
digitalWrite (low_led, HIGH);
}
```

```
else
{
Serial.println ("Someone Is Infront Of the Sensor");
digitalWrite (high_led, HIGH);
delay (100);
digitalWrite (high_led, LOW);
delay (100);
digitalWrite (high_led, HIGH);
delay (100);
}
}
```