ASSIGNMENT-1

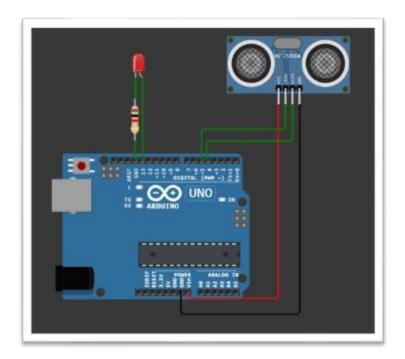
```
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WOKWI LINK:
With Arduino UNO- https://wokwi.com/projects/365177109590500353
With ESP32- https://wokwi.com/projects/365177953893466113
CODE:
1)With Arduino UNO
void setup()
 pinMode(5, OUTPUT);
 pinMode(4, INPUT);
 pinMode(13, OUTPUT);
 Serial.begin(9600);
void loop()
 digitalWrite(5,LOW);
 digitalWrite(5,HIGH);
 delayMicroseconds(10);
 digitalWrite(5,LOW);
 float dur=pulseIn(4,HIGH);
 float dis=(dur*0.0343)/2;
 if(dis<100)
 { digitalWrite(13, HIGH);
  delay(1000);}
```

```
else
   {digitalWrite(13, LOW);
  delay(1000);}
 Serial.print("Distance: ");
 Serial.println(dis);}
2)With ESP 32
void setup()
 pinMode(13, OUTPUT);
 pinMode(12, INPUT);
 pinMode(27, OUTPUT);
 Serial.begin(9600);
}
void loop()
 digitalWrite(13,LOW);
 digitalWrite(13,HIGH);
 delayMicroseconds(10);
 digitalWrite(13,LOW);
 float dur=pulseIn(12,HIGH);
 float dis=(dur*0.0343)/2;
 if(dis<100)
  { digitalWrite(27, HIGH);
  delay(1000);}
 else
   {digitalWrite(27, LOW);
  delay(1000);}
 Serial.print("Distance: ");
```

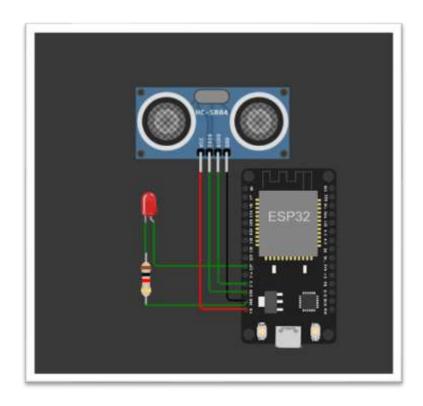
```
Serial.println(dis);
```

CIRCUIT CONNECTION:

1)With Arduino UNO

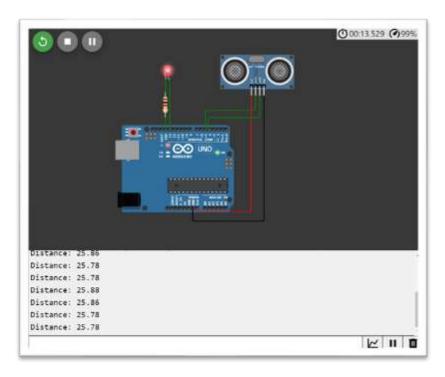


2)With ESP 32



RESULTS:

1)With Arduino UNO



2)With ESP 32

