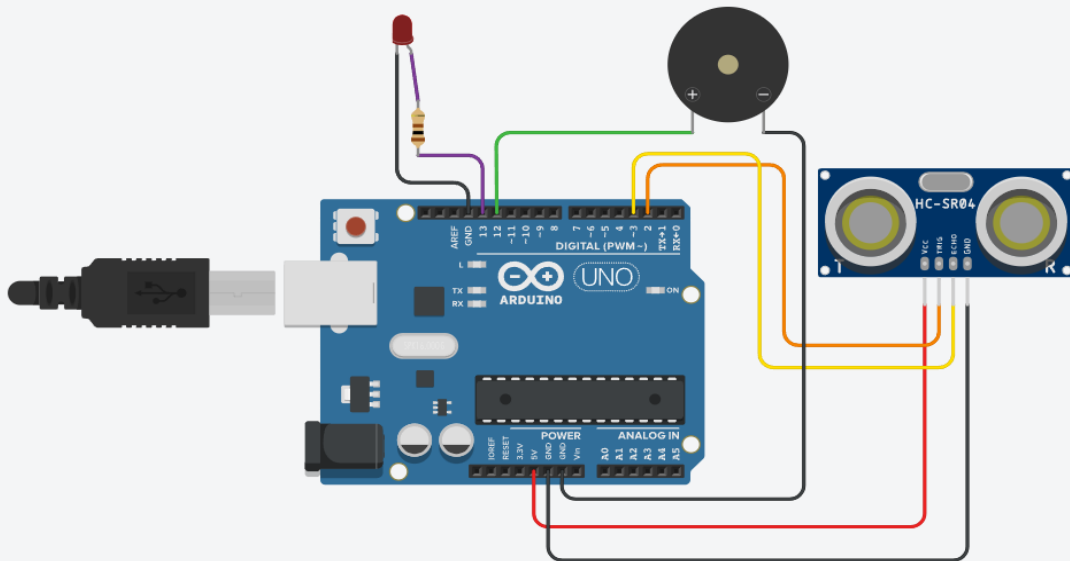


Assignment no - 1

Assignment Date	23 September 2022
Student Name	M Dharani
Student Roll Number	820419106012
Maximum Marks	2 Marks

Make a smart home with 2-3 Sensors , LED ,Buzzer in single code and connections.

Solution:



```
int t=2;

int e=3;

void setup()

{
  Serial.begin(9600);
  pinMode(t,OUTPUT);
  pinMode(e,INPUT);
  pinMode(13,OUTPUT);
  pinMode(12,OUTPUT);
}

void loop()

{
  digitalWrite(t,HIGH);
  delayMicroseconds(10);
  digitalWrite(t,LOW);
  float dur = pulseIn(e,HIGH);
  float dis = (dur*0.0343)/2;
  if (dis<=200)
  {
    Serial.println("object detected");
    Serial.println(12,HIGH);
    digitalWrite(13,HIGH);
    Serial.println("LED ON");
    delay(1000);
  }
  else
  {
    Serial.println("no object detected");
    digitalWrite(12,LOW);
    digitalWrite(13,LOW);
    delay(1000);
  }
}
```