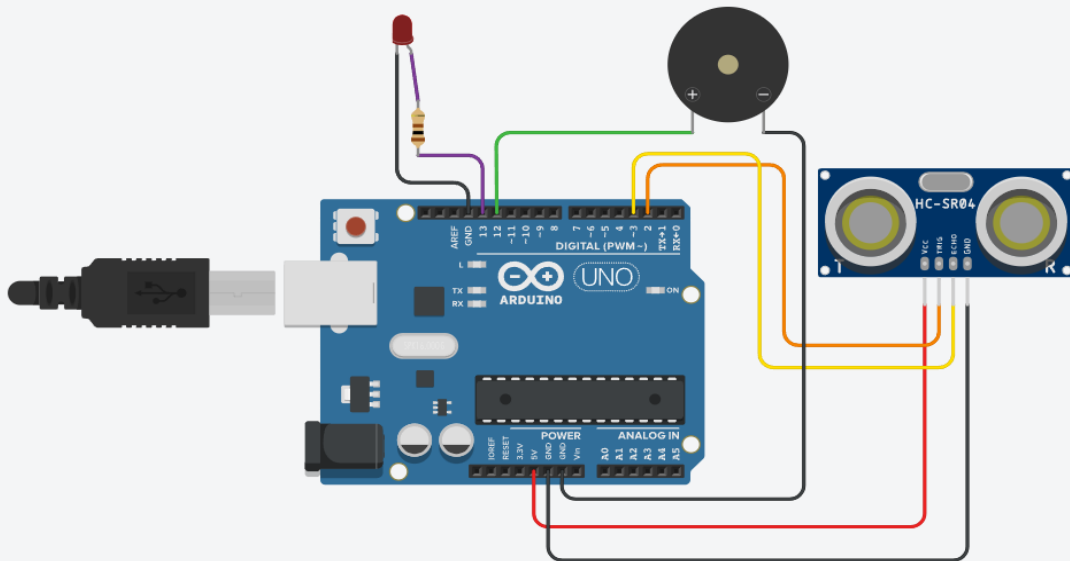


Assignment no - 1

Assignment Date	23 September 2022
Student Name	K Niraimathi
Student Roll Number	820419106037
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);

  }

}
```