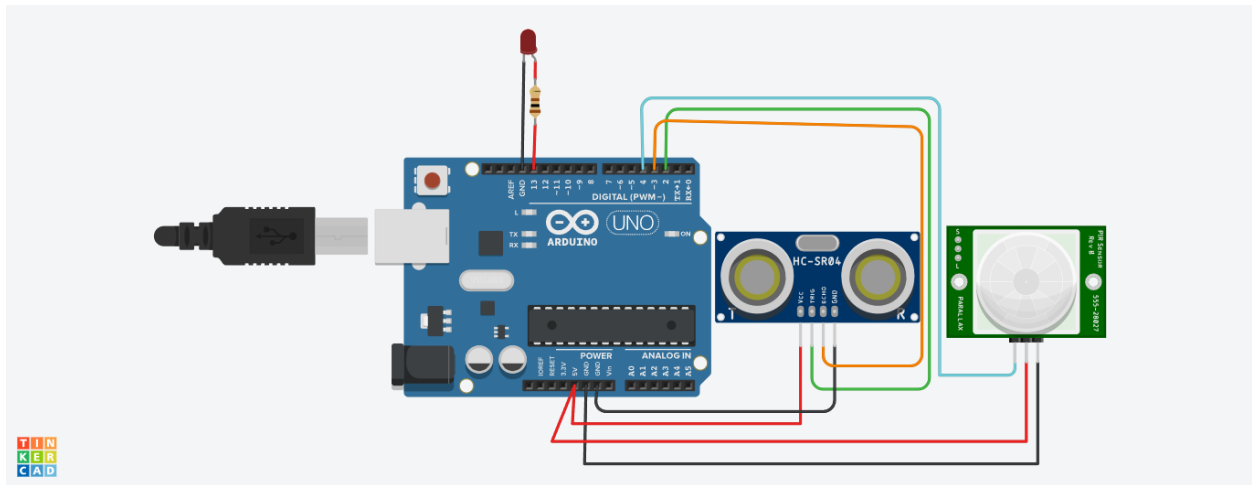


Assignment 1

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Program:

```
int t=2;  
int e=3;  
void setup()  
{  
  Serial.begin(9600);  
  pinMode(t,OUTPUT);
```

```
pinMode(e,INPUT);
pinMode(4,INPUT);
pinMode(13,OUTPUT);
}
void loop()
{
  digitalWrite(t,LOW);
  digitalWrite(t,HIGH);
  delayMicroseconds(1000);
  digitalWrite(t,LOW);
  float dur=pulseIn(e,HIGH);
  float dis=(dur*0.0343)/2;
  if(dis<=200){
    Serial.print("Door Open");
    delay(1000);
  }
  int p=digitalRead(4);
  if(p==1)
  {
    digitalWrite(13,HIGH);
```

```
Serial.println("Motion detected");
delay(1000);
}
else
{
digitalWrite(13,LOW);
Serial.println("Motion not detected");
delay(1000);
}
}
```

Output:

[illegible]

