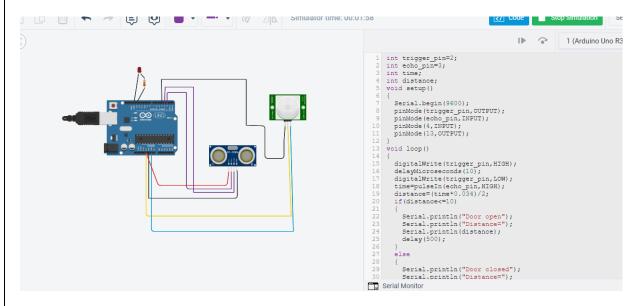
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CIRCUIT



```
code:
int trigger_pin=2;
int echo_pin=3;
int time;
int distance;
void setup()
{
    Serial.begin(9600);
    pinMode(trigger_pin,OUTPUT);
    pinMode(echo_pin,INPUT);
    pinMode(4,INPUT);
    pinMode(13,OUTPUT);
}
void loop()
```

```
{
digitalWrite(trigger_pin,HIGH);
 delayMicroseconds(10);
 digitalWrite(trigger_pin,LOW);
time=pulseIn(echo_pin,HIGH);
 distance=(time*0.034)/2;
if(distance<=10)
{
  Serial.println("Door open");
  Serial.println("Distance=");
  Serial.println(distance);
  delay(500);
}
 else
{
  Serial.println("Door closed");
  Serial.println("Distance=");
  Serial.println(distance);
  delay(500);
  int p=digitalRead(4);
  if(p)
   digitalWrite(13,HIGH);
   Serial.println("motion detected");
  }
  else
   digitalWrite(13,LOW);
   Serial.println("not detected");
  }
```

