

ASSIGNMENT 1

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PROGRAM

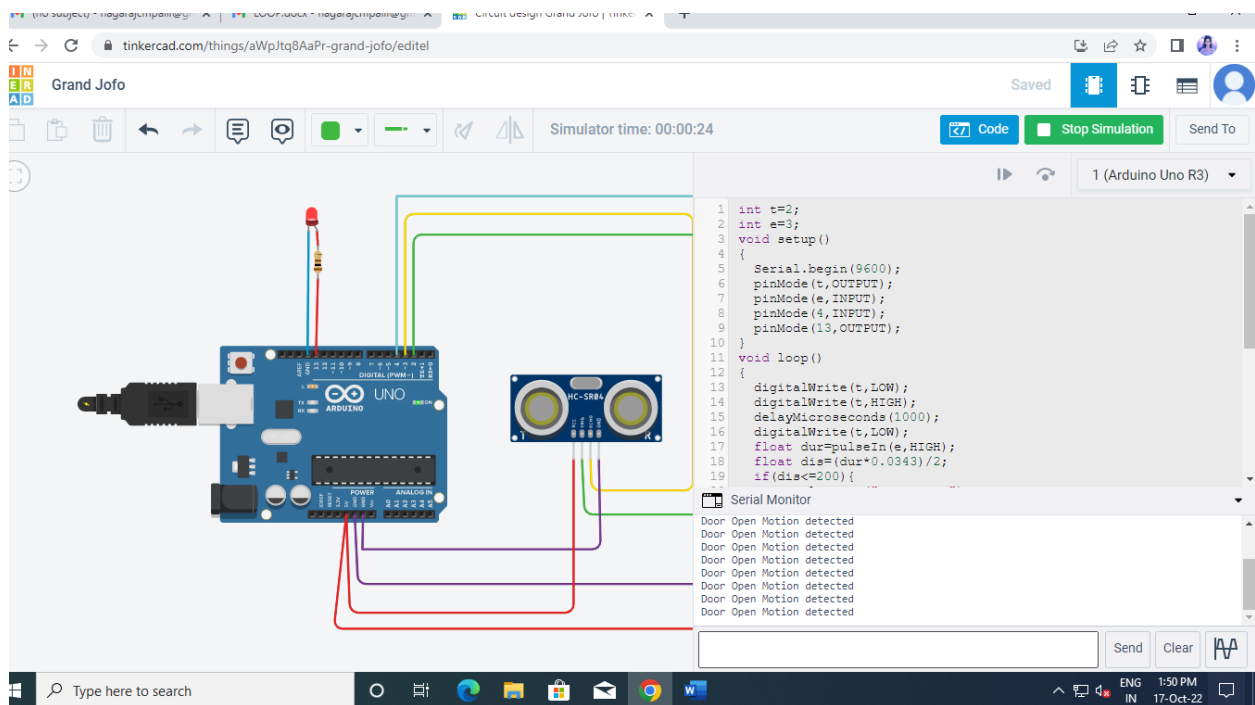
```
int trigger_pin = 2;
int echo_pin = 3;
int buzzer_pin = 10;
int time;
int distance;
void setup()
{
    Serial.begin (9600);
    pinMode (trigger_pin, OUTPUT);
    pinMode (echo_pin, INPUT);
    pinMode (buzzer_pin, OUTPUT);
}
void loop()
{
```

```
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.print (" Distance= ");  
  Serial.println (distance);  
  digitalWrite (buzzer_pin, HIGH);  
  delay (500);  
}
```

```
else {  
  Serial.println (" Door closed ");  
  Serial.print (" Distance= ");  
  Serial.println (distance);  
  digitalWrite (buzzer_pin, LOW);
```

```
    delay (500);  
  }  
}
```



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<https://www.tinkercad.com/things/aWpJtq8AaPr-grand-jofo/editel>