AUTOMATIC HAND SANITIZER

hand sanitizer

All changes saved

Simulator time: 00:00:03.575

Code | Stop Simulation | Send To

1 (Arduino Uno R3) ▼

```
19   digitalWrite(trigPin, LOW);
20   delayMicroseconds(2);
21   digitalWrite(trigPin, HIGH);
22   delayMicroseconds(10);
23   digitalWrite(trigPin, LOW);
24   duration = pulseIn(echoPin,H
25   cm = microsecondsToClockCycl
26   Serial.print("Diatance:");
27   Serial.print(cm);
28   Serial.print("cm");
29   delay(100);
30   if(cm>=10)
31   {
32     Myservo.write(0);
33   }
34   else
35   {
36     Myservo.write(90);
37   }
38   Serial.println();
39   delay(100);
40 }
41 long microsecondsToCentimeters(long microseconds)
42 {
43   return microseconds / 29 /2;
44 }
```

How the debugger works   X

1. Add breakpoints by clicking on the line
   numbers.
2. Hover over the variables while paused to
   see their value.
3. Use the buttons above to resume
   simulation or step one line at a time.

Serial Monitor   ▼

Diatance:189504cmDistanceMeasurementDiatance:190912cm
Diatance:190912cm
Diatance:189472cm
Diatance:189472cm
Diatance:190912cm
Diatance:189472cm
Diatance:189472cm
Diatance:190912cm

Send | Clear
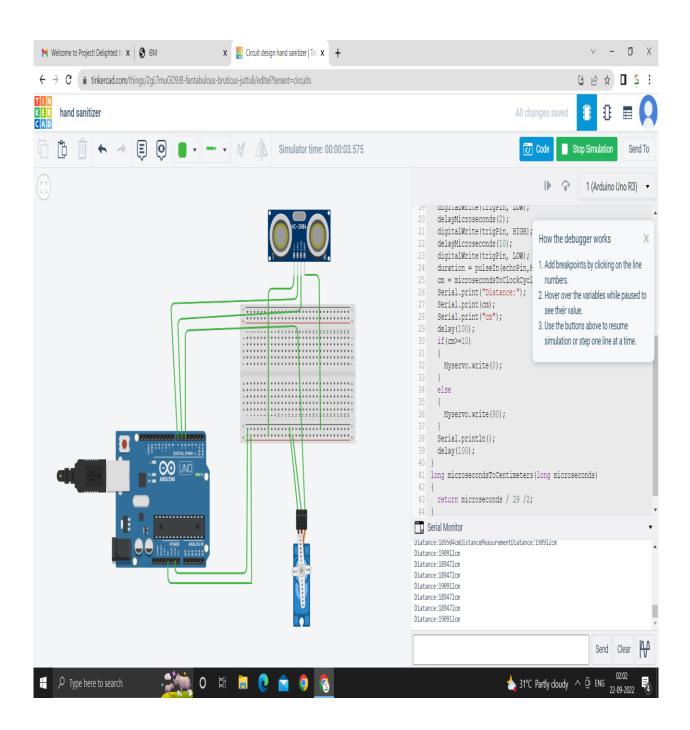
CODE:

```
#include<Servo.h>
const int trigPin=7;
const int echoPin=6;
Servo Myservo;
void setup()
{
  Serial.begin(9600);
  Myservo.attach(5);
  pinMode(trigPin,OUTPUT);
  pinMode(echoPin,INPUT);
  Serial.print("Distance");
  Serial.print("Measurement");
  delay(2000);
}
void loop()
{
  long duration, cm;

  digitalWrite(trigPin, LOW);
  delayMicroseconds(2);
  digitalWrite(trigPin, HIGH);
  delayMicroseconds(10);
  digitalWrite(trigPin, LOW);
  duration = pulseIn(echoPin,HIGH);
  cm = microsecondsToClockCycles(duration);
  Serial.print("Diatance:");
  Serial.print(cm);
  Serial.print("cm");
  delay(100);
  if(cm>=10)
  {
    Myservo.write(0);
  }
  else
  {
    Myservo.write(90);
  }
  Serial.println();
  delay(100);
}
long microsecondsToCentimeters(long microseconds)
{
  return microseconds / 29 /2;
}
```