

ASSIGNMENT-1

TEAM ID-PNT2022TMID30034

CODE:

```
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;

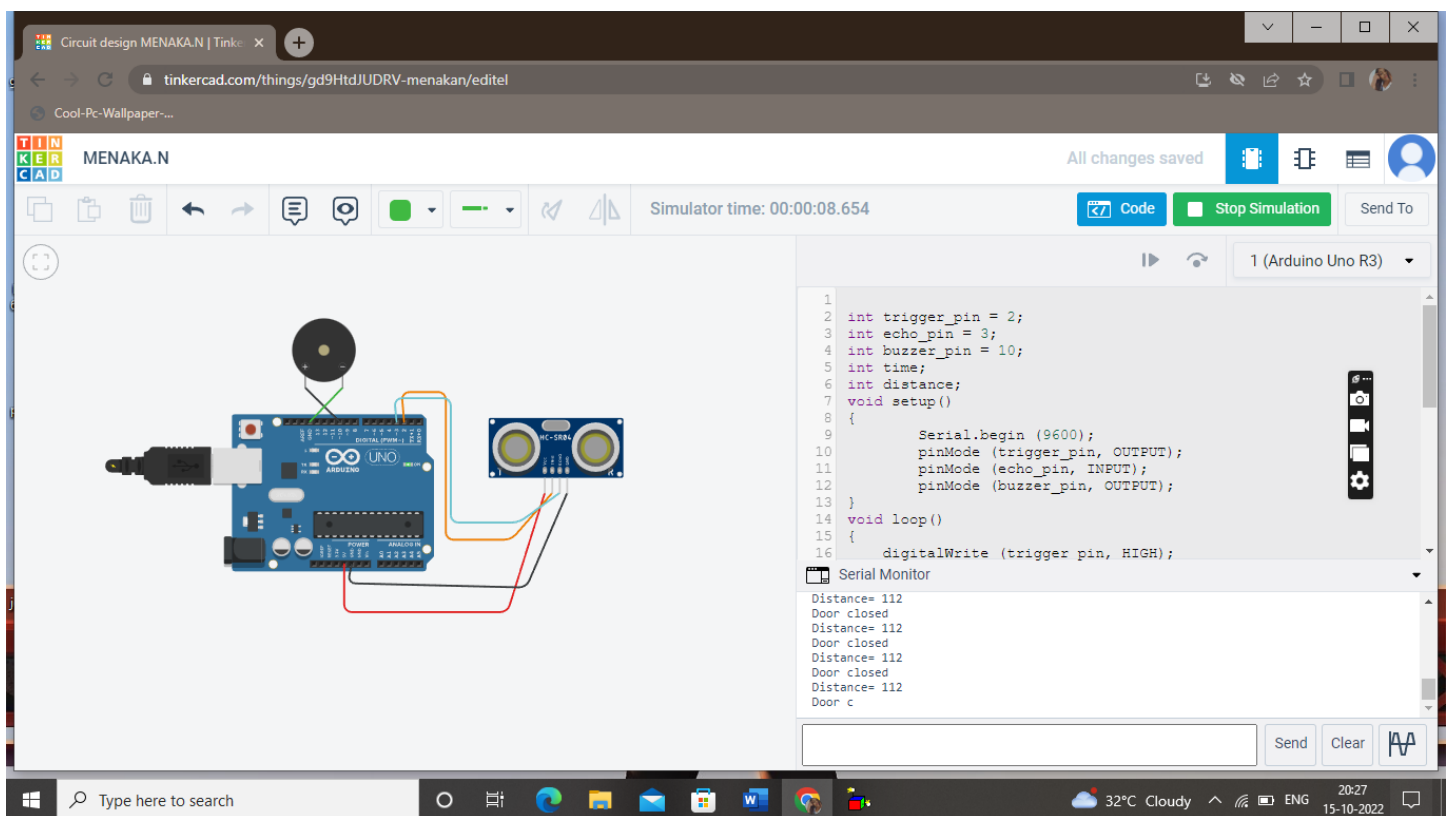
    if (distance <= 10)
    {
        Serial.println (" Door Open ");
        Serial.print (" Distance= ");
        Serial.println (distance);
        digitalWrite (buzzer_pin, HIGH);
```

```

    delay (500);
  }
else {
  Serial.println (" Door closed ");
  Serial.print (" Distance= ");
  Serial.println (distance);
  digitalWrite (buzzer pin, LOW);
  delay (500);
}
}

```

OUTPUT:



FOR REFERENCE LINK: <https://www.tinkercad.com/things/gd9HtdJUDRV>