ASSESSMENT-1

ASSESSMENT DATE	19 SEPTEMBER 2022
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MARKS	2 Marks

PROBLEM:

Home Automation using Tinkercad.

CODE:

```
#include<Servo.h>

int dist = 0;


long readUltrasonicDistance(int triggerPin, int echoPin)
{
  pinMode(triggerPin, OUTPUT);
  digitalWrite(triggerPin, LOW);
  delayMicroseconds(2);


  digitalWrite(triggerPin, HIGH);
  delayMicroseconds(10);
  digitalWrite(triggerPin, LOW);
  pinMode(echoPin, INPUT);
  return pulseIn(echoPin, HIGH);
}


Servo servo_8;


void setup()
{
  servo_8.attach(8, 500, 2500);
  pinMode(2, INPUT);
  pinMode(12, OUTPUT);
  pinMode(A0, INPUT);
  pinMode(9, OUTPUT);
}


void loop()
{
```

```
        dist = 0.01723 * readUltrasonicDistance(7, 7);
        if (dist <= 100) {
          servo_8.write(90);
          delay(1000);
        } else {
          servo_8.write(0);
          delay(1000);
        }
        if (digitalRead(2) == 1) {
          digitalWrite(12, HIGH);
          delay(1000);
        } else {
          digitalWrite(12, LOW);
          delay(1000);
        }
        if (analogRead(A0) > 200) {
          digitalWrite(9, HIGH);
          delay(1000);
        } else {
          digitalWrite(9, LOW);
          delay(1000);
        }
      }
```

CIRCUIT SCREENSHOT: