## **ASSESSMENT-1**

ASSESSMENT DATE	19 SEPTEMBER 2022
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MARKS	2 Marks

## **PROBLEM:**

Home Automation using Tinkercad.

## **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.print("Distance=");
Serial.println(distance);
delay(500);
```

```
else{
Serial.println("Door closed");
Serial.print("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");
}
```

## **CIRCUIT SCREENSHOT:**

