## **ASSESSMENT-1**

| ASSESSMENT DATE | 19 SEPTEMBER 2022 |
|-----------------|-------------------|
| NAME            | RAVEENA.S         |
| REGISTER NUMBER | 621319106075      |
| 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:**



