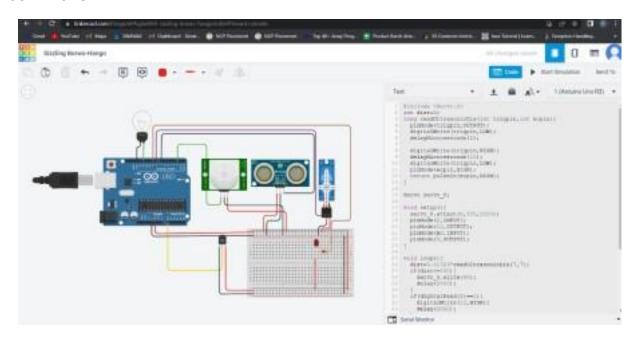
## **ASSIGNMENT-1**

Assignment Date	18 October 2022
Student Name	J.E Vijay
Student Roll Number	73151921059
Maximum Marks	2 Marks

## QUESTION-1:

Build a smart home in Thinkercad with 2 sensors, an Led, buzzer and submit it.

## **SCREENSHOT:**



## CODE:

#include <Servo.h>
int dist=0;
long readUltrasonicDis(int trigpin,int ecpin){
pinMode(trigpin,OUTPUT);
digitalWrite(trigpin,LOW);
delayMicroseconds(2);
digitalWrite(trigpin,HIGH);

delayMicroseconds(10);

pinMode(ecpin,HIGH);

digitalWrite(trigpin,LOW);

```
return pulseIn(ecpin,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*readUltrasonicDis(7,7);
if(dist<=100){
servo_8.write(90);
delay(2000);
}
if(digitalRead(2)==1){
digitalWrite(12,HIGH);
delay(2000);
}
else{
digitalWrite(12,LOW);
delay(2000);
}
if(analogRead(A0)>200){
digitalWrite(9,HIGH);
delay(2000);
}
```

```
else{
digitalWrite(9,LOW);
delay(2000)
; }
}
```