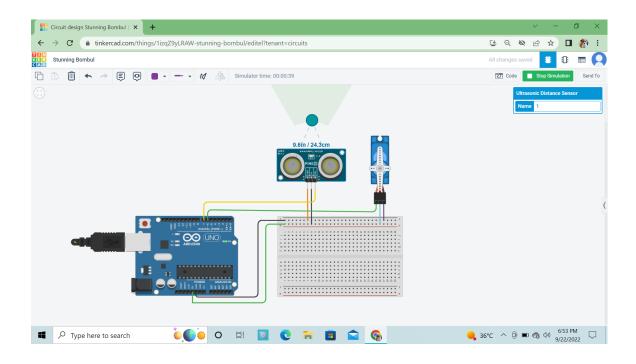
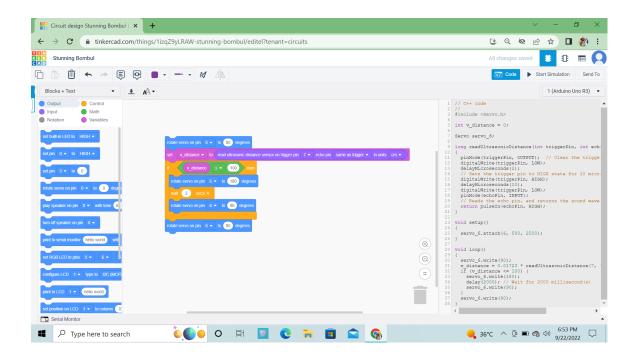
## **IOT SMART GATE DESIGN FOR SMART HOME**



## **COMPONENTS:-**

- Arduino Uno R3
- Ultrasonic Distance Sensor
- Breadboard
- Micro Servo



## **CODING:-**

```
#include <Servo.h>
int v distance = 0;
Servo servo_6;
long readUltrasonicDistance(int triggerPin, int echoPin)
 pinMode(triggerPin, OUTPUT); // Clear the trigger
 digitalWrite(triggerPin, LOW);
 delayMicroseconds(2);
 // Sets the trigger pin to HIGH state for 10 microseconds
 digitalWrite(triggerPin, HIGH);
 delayMicroseconds(10);
 digitalWrite(triggerPin, LOW);
 pinMode(echoPin, INPUT);
 // Reads the echo pin, and returns the sound wave travel time in microseconds
 return pulseIn(echoPin, HIGH);
}
void setup()
{
 servo_6.attach(6, 500, 2500);
```

```
void loop()
{
   servo_6.write(90);
   v_distance = 0.01723 * readUltrasonicDistance(7, 7);
   if (v_distance <= 100) {
   }
   servo_6.write(90);

   servo_6.write(180);
   delay(2000); // Wait for 2000 millisecond(s)
   servo_6.write(90);
}</pre>
```