SMART HOME

COMPONENTS USED:

Arduino uno

Bread board

Servo motor

Pir sensor

Ultrasonic sensor

Led&resister

Bulb

Temperature sensor

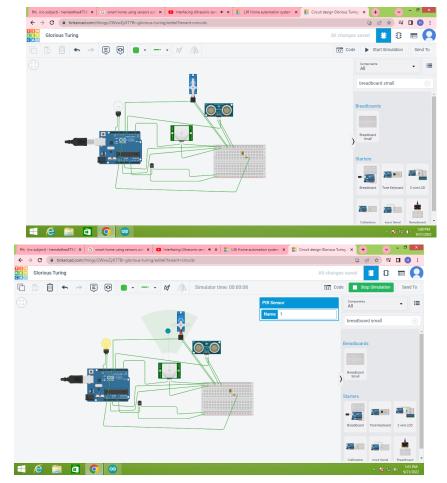
DESCRIPTION:

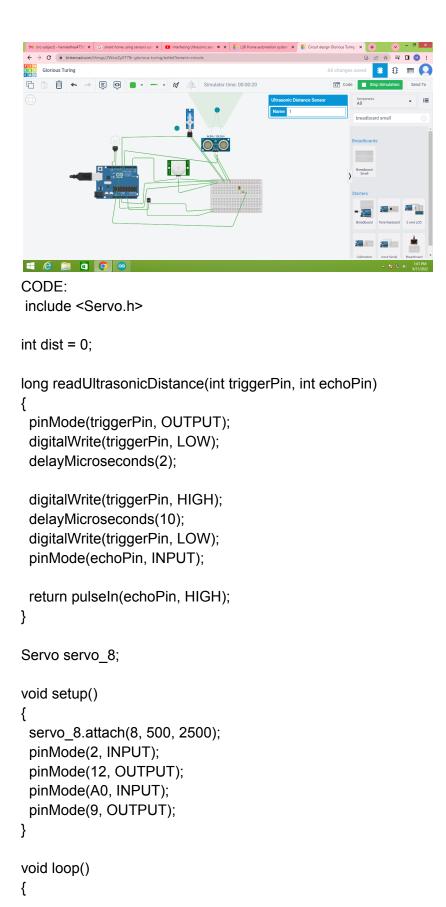
Here I used ultrasonic sensor to detect the distance and on the fan automatically if it is less than 100cm.

Also, I used pir sensor to detect the object movement and on the light if the object is detected.

Additionally, I used temperature sensor to sense the temperature of the object entering into the specified area.

SIMULATION:





```
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);
}
}
```