Automatic garage opening system

Components used:

Arudino uno

Bread board

Ultrasonic sensor

Servo motor

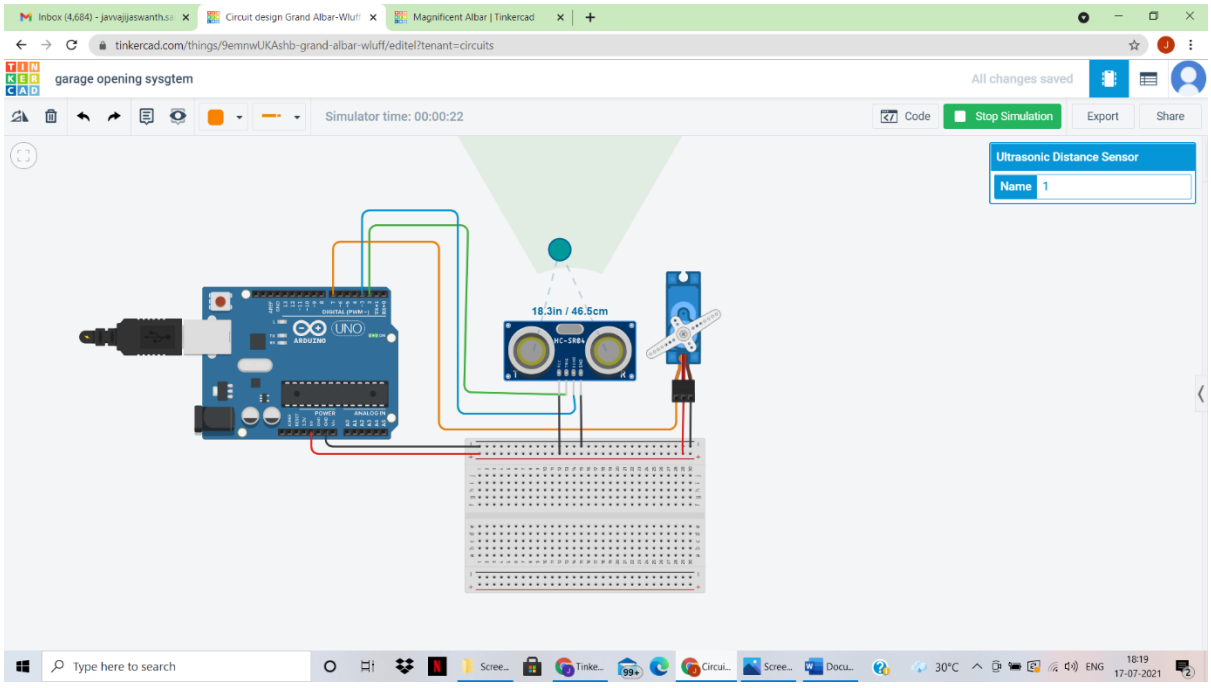
Code:

```
#include <Servo.h>
Servo myservo;
int t=2;
int e=3;
void setup()
{
  pinMode(t, OUTPUT);
  pinMode(e,INPUT);
  myservo.attach(7);
  Serial.begin(9600);
}
void loop()
{
  digitalWrite(t,LOW);
  digitalWrite(t,HIGH);
  delay(10);
  digitalWrite(t,LOW);
  float dur=pulseIn(3,HIGH);
  float dis=(dur * 0.0343)/2;
  Serial.print("distance in cm: ");
```

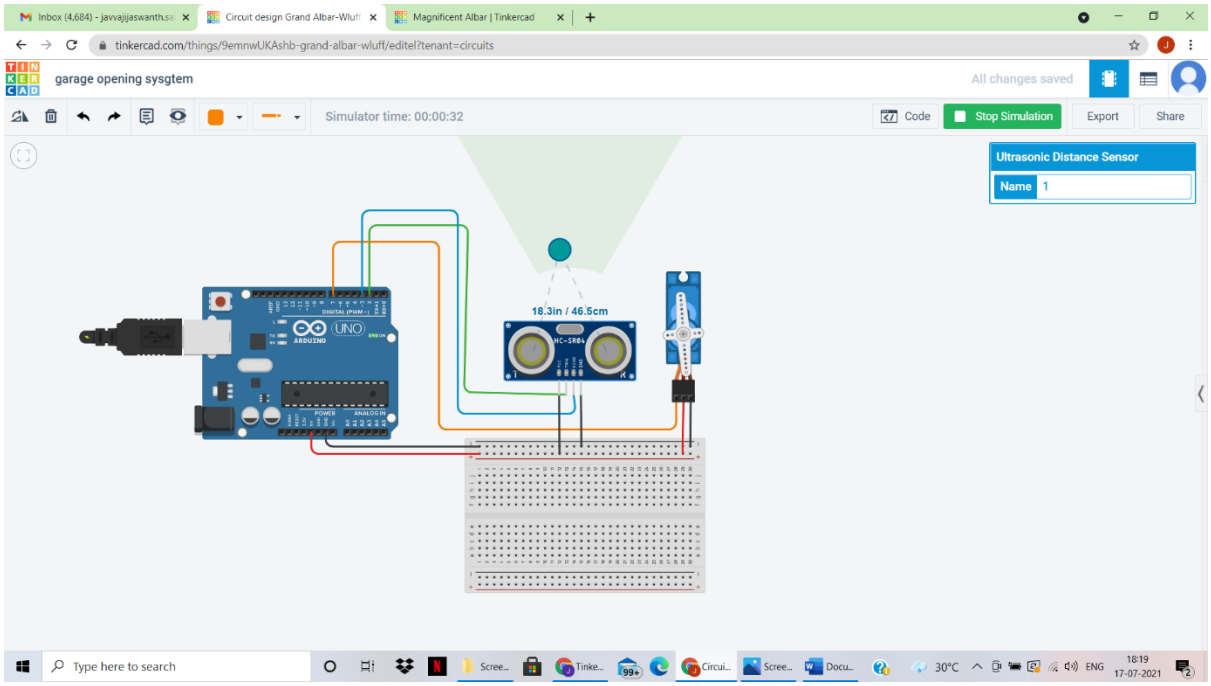
```
Serial.println(dis);
if (dis <= 70){
  myservo.write(180);
  delay(2000);
  myservo.write(0);
 }
delay(5000);
 myservo.write(0);
}
```

Output:

1.When distance is less than 70 cm the servo motor starts rotating



2.after some delay the servo motor again comes back to initial position at same distance



3.for distance above 70cm the servo motor doesn't rotate as we kept a range less than or equal to 70cm only it starts rotating