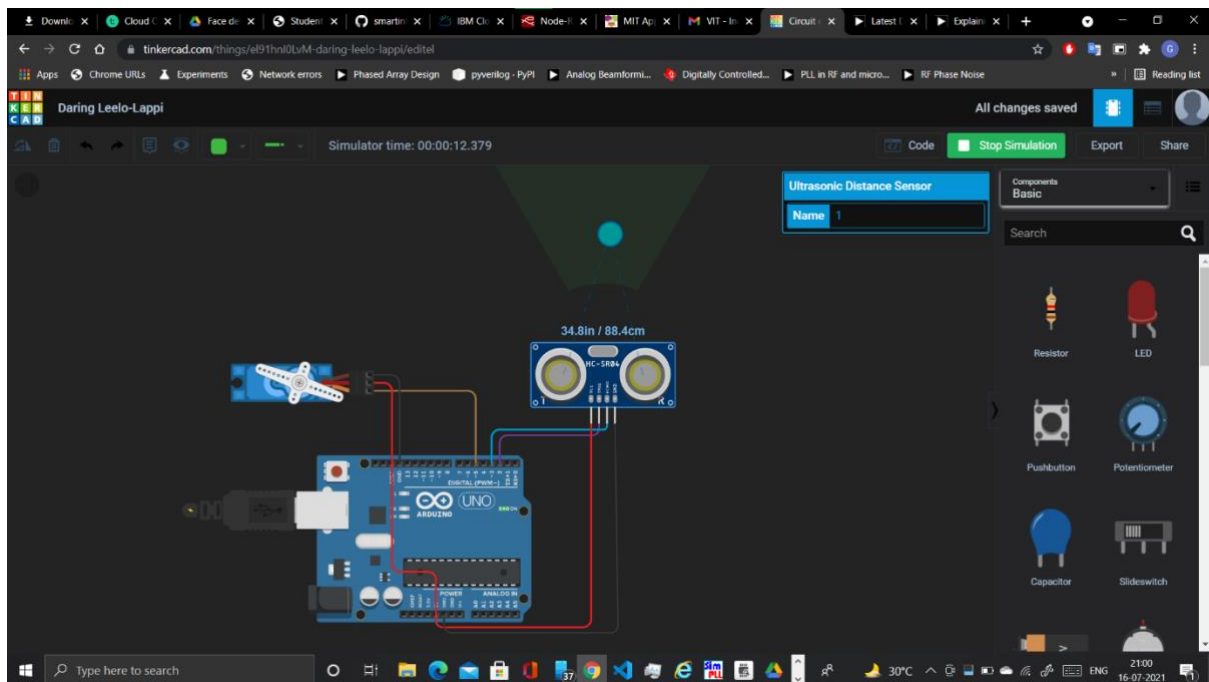
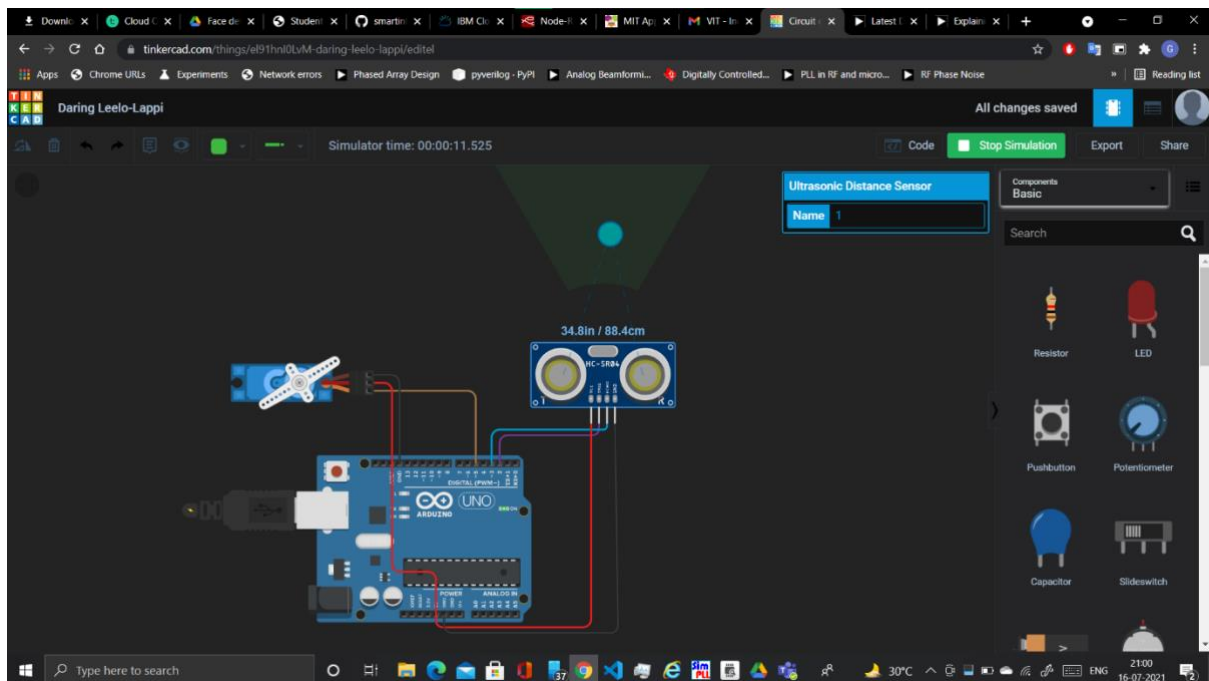
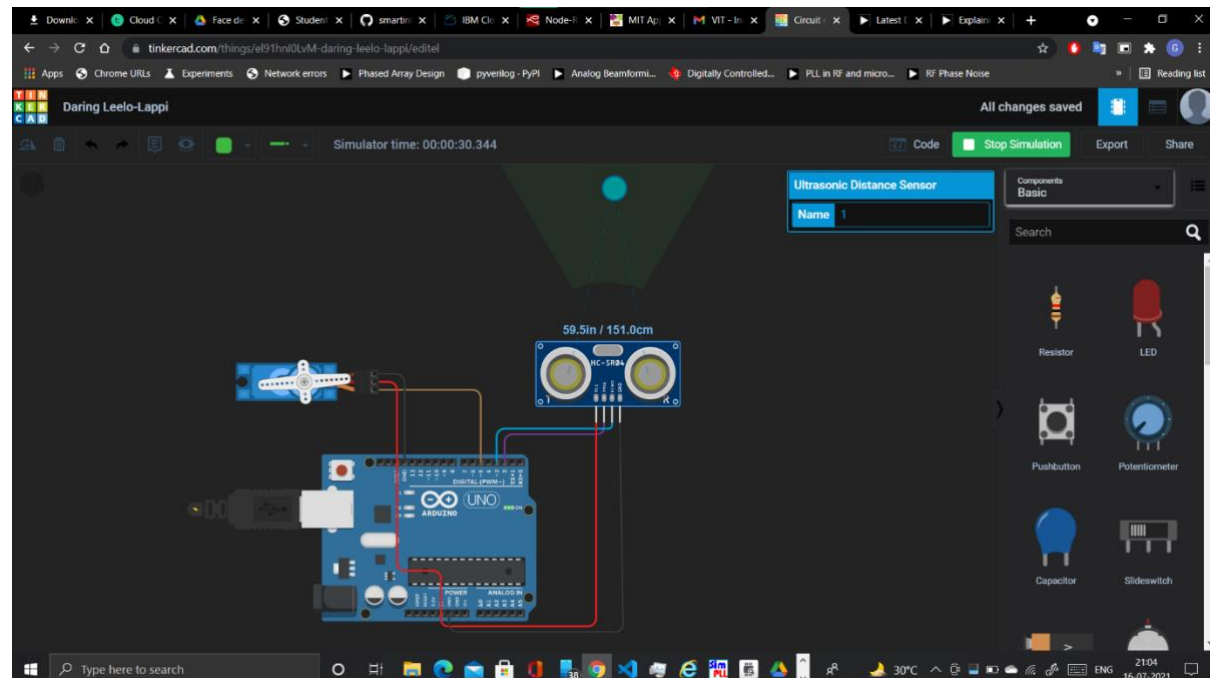
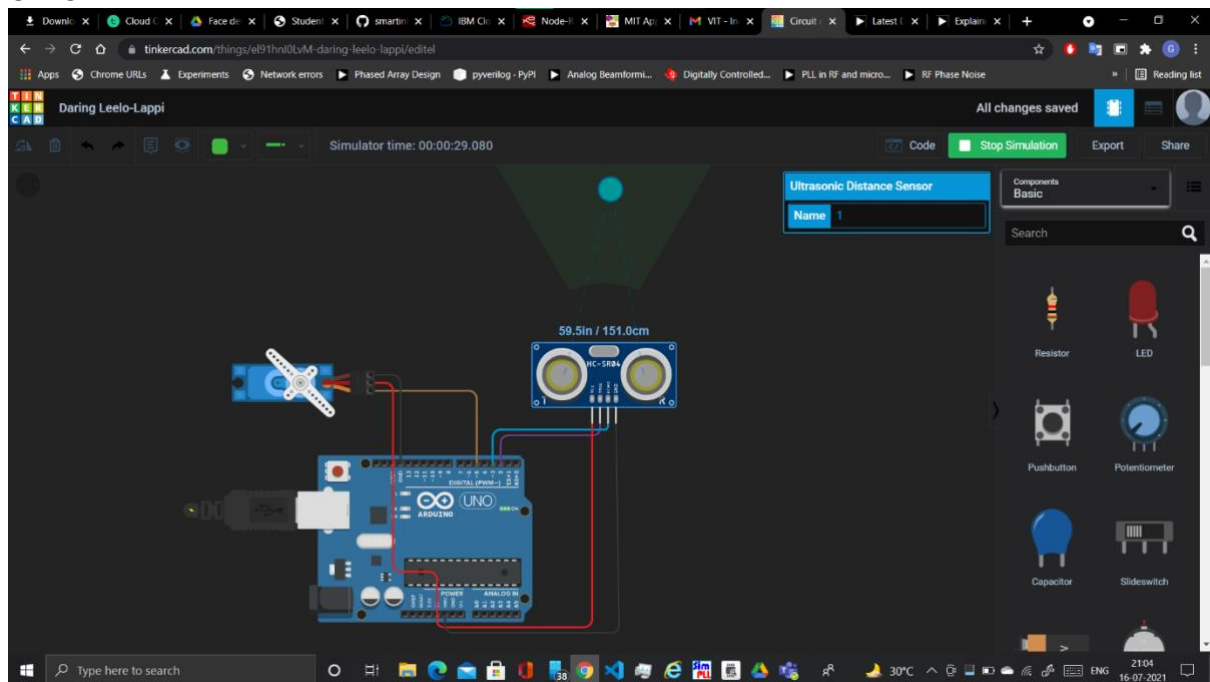


If an object detected which is less than 100cm, servo motor rotates and opens the garage door.



If the object is not detected within 100cm, servo motor rotates in opposite direction and closes the garage door



Arduino code :

```
1  #include <Servo.h>
2  Servo obj;
3  const int servo = 5;
4  const int trig = 2;
5  const int echo = 3;
6  void setup()
7  {
8      obj.attach(servo);
9      pinMode(trig, OUTPUT);
10     pinMode(echo, INPUT);
11     Serial.begin(9600);
12 }
13
14 void loop()
15 {
16     digitalWrite(trig, LOW);
17     digitalWrite(trig, HIGH);
18     delayMicroseconds(10);
19     digitalWrite(trig, LOW);
20     float duration = pulseIn(echo, HIGH);
21     float distance = (duration*0.034)/2;
22     Serial.println(distance);
23     if (distance < 100)
24     {
25         obj.write(180);
26     }
27     else
28     {
29         obj.write(0);
30     }
31 }
```