Assignment-2

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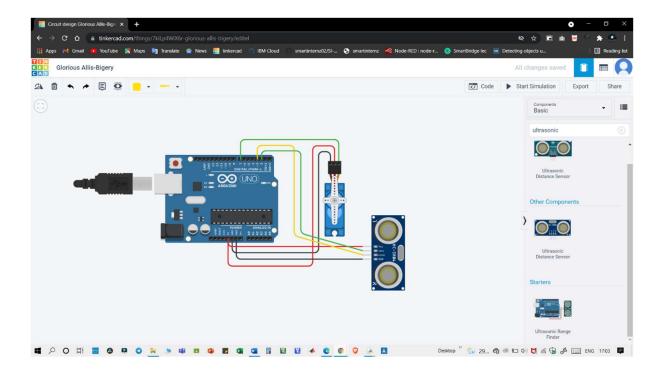
Develop an "Automatic garage door opening system". Use an Ultrasonic sensor to detect if there is a vehicle in front of the garage. if any vehicle is detected open the garage door (rotate the servo motor) for some time and close it.

CODE:

```
#include<Servo.h>
Servo s;
void setup()
{
s.attach(7);
pinMode(2, OUTPUT);
pinMode(3, INPUT);
Serial.begin(9600);
}
void loop()
{
digitalWrite(2, LOW);
digitalWrite(2, HIGH);
delayMicroseconds(10);
digitalWrite(2, LOW);
float dur = pulseIn(3, HIGH);
float dis = (dur * 0.0343)/2;
Serial.print("Distance in cm: ");
Serial.println(dis);
if(dis<100)
{
```

```
s.write(90);
delay(1000);
}
else
{
    s.write(0);
    delay(1000);
}
```

Before simulation:



After simulation:

