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# **ASSIGNMENT-2**

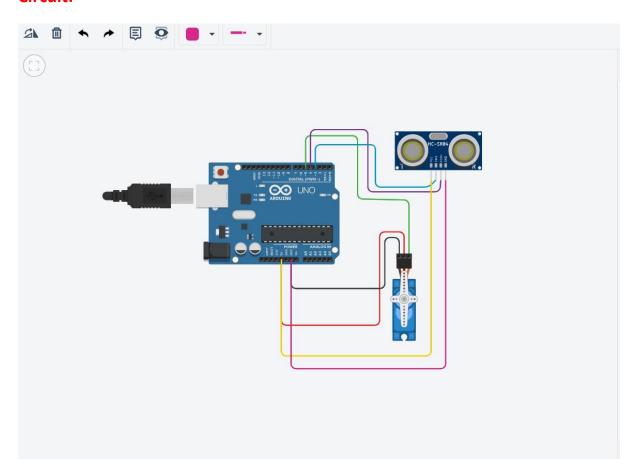
# Automatic garage door opening system

#### Code:

```
#include<Servo.h>
Servo s;
void setup()
{
pinMode(3, OUTPUT);
pinMode(4, INPUT);
Serial.begin(9600);
s.attach(5);
}
void loop()
{
digitalWrite(3, LOW);
delayMicroseconds(2);
digitalWrite(3, HIGH);
delayMicroseconds(10);
digitalWrite(3, LOW);
```

```
float duration = pulseIn(4, HIGH);
float distance= duration*0.034/2;
Serial.print("Distance: ");
Serial.println(distance);
 if (distance<25)
{
for(int i=0;i<=180;i++)
{
s.write(i);
delay(50);
}
delay(200);
Serial.print("Vehicle has approached, Opening Gate!!");
for(int j=180;j>=0;j--)
{
s.write(j);
delay(50);
}
delay(200);
}
```

### **Circuit:**



### **Output:**

