ASSIGNMENT-2

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19BCG10083

```
#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);
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                                                                                                                           1 (Arduino Uno R3) •
                                                                                                                            Send Clear
I ► 1 (Arduino Uno R3) •
                                                                                        void loop()
(
digitalWrite(3, LOW);
delayMicroseconds(2);
digitalWrite(3, HIGH);
delayMicroseconds(10);
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```