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Code Start Simulation Export Send To

Text 1 (Arduino Uno R3)

```
1 pinMode(2,OUTPUT);
2 pinMode(3,INPUT);
3 Serial.begin(9600);
4 s.attach(4);
5 }
6 void loop()
7 {
8   digitalWrite(2,LOW);
9   digitalWrite(2,HIGH);
10  delayMicroseconds(10);
11  digitalWrite(2,LOW);
12  int dur = pulseIn(3,HIGH);
13  float dis=(dur*0.343)/2;
14  s.write(0);//door cloased initially
15  if (dis>=3200){//range in 4m but tinkercad detects till this va
16    Serial.println("No Car Detected");//if sensor dosn't datect c
17  }
18  else{
19    Serial.println("Door opening");
20    for(int i=0;i<180;i++){
21      s.write(i);
22      delay(50);
23    }
24    Serial.println("Door opened");
25    delay(5000);//door remains open for 5sec
26    Serial.println("Door closing");
27    for(int j=180;j>=0;j--){
28      s.write(j);
29      delay(50);
30    }
31    Serial.println("Door closed");
32  }
33  delay(5000);
34 }
```

Serial Monitor

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Text

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```
1 #include<Servo.h>
2 Servo s;
3 void setup()
4 {
5     pinMode(2,OUTPUT);
6     pinMode(3,INPUT);
7     Serial.begin(9600);
8     s.attach(4);
9 }
10 void loop()
11 {
12     digitalWrite(2,LOW);
13     digitalWrite(2,HIGH);
14     delayMicroseconds(10);
15     digitalWrite(2,LOW);
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35     }
36 }
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Serial Monitor

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