## Name- Chitrankshi Rathour

## **ASSIGNMENT - 2**

## 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);
}
```

## **Screenshots:**





