

```

// C++ code
//
#include<Servo.h>
Servo s;
void setup()
{
  s.attach(5);
  pinMode(3, OUTPUT);
  pinMode(2, INPUT);
  Serial.begin(9600);
}

void loop()
{
  digitalWrite(3, LOW);
  digitalWrite(3, HIGH);
  delayMicroseconds(10);
  digitalWrite(3, LOW);
  float d1 = pulseIn(2, HIGH);
  float d2 = (d1 * 0.034)/2;
  Serial.print("Distance in cm : ");
  Serial.println(d2);
  if(d2<320.0)
  {
    s.write(159);
  }
  else
  {
    s.write(0);
  }
}

```

THIS CODE WILL OPEN IF ANY OBJECT IS IN RANGE AND WILL CLOSE IF NO OBJECT IS IN RANGE