#include<Servo.h>

Servo servo;

const int trigPin = 5;

const int echoPin = 6;

const int distanceThreshold = 30;

void setup()

{

  Serial.begin(9600);

  pinMode(trigPin, OUTPUT);

  pinMode(echoPin, INPUT);

  servo.attach(3);

}

void loop()

{

  digitalWrite(trigPin, LOW);

  delayMicroseconds(2);

  digitalWrite(trigPin, HIGH);

  delayMicroseconds(2);

  digitalWrite(trigPin, LOW);

  long duration = pulseIn(echoPin, HIGH);

  int distance = duration / 58;

  Serial.print("Distance: ");

  Serial.print(distance);

  Serial.println(" cm");

 if (distance <= 20 && distance >= 0)

{

servo.write(50); delay(3000);

}

else

{

servo.write(160);

}

 delay(100);

}