#include <Servo.h>

Servo myServo;

const int sensorPin = 9;

const int servoPin = 3;

void setup() {

// Start serial communication for debugging

Serial.begin(9600);

// Attach the servo to the specified pin

myServo.attach(servoPin);

myServo.write(O); // Initialize servo to 0 degrees

// Initialize the sensor pin

pinMode(sensorPin, INPUT);

}

void loop() {

// Read the sensor value

int sensorValue = digitalRead(sensorPin);

// Print the sensor value for debugging

Serial.print("Sensor Value: ");

Serial.printIn(sensorValue);

// Move the servo based on the sensor value

if (sensorValue == HIGH) {

myServo.write(90); // Move servo to 90 degrees

delay(5000); // Wait for 5 seconds (5000 milliseconds)

myServo.write(O); // Move servo back to 0 degrees

}

delay(100); // Delay for stability