Potentiometer to Servo Motor

// as you rotate the dial of the potentiometer (i.e., rotary angle sensor),

// the servo turns correspondingly

#include <Servo.h> //adds servo library

Servo myservo; //create servo object to control a servo

int potpin = 0; //connect the potentiometer (rotary angle sensor) to analog pin A0

int val; //variable to read the value from the analog pin

void setup() {

 myservo.attach(7); //connect the servo to digital pin D7

}

void loop() {

 val = analogRead(potpin); //reads the value of the potentiometer (value between 0 and 1023)

 val = map(val, 0, 1023, 0, 180); // scale the value to use it with the servo (value between 0 and 180)

 myservo.write(val); // sets the servo position according to the scaled value

 delay(15); // waits for the servo to get there

}