Codes of Uno Arduino control of 6 servo motors

// Step 1 (include Arduino Servo library)

#include <Servo.h>

//step 2 ( servo 1 settings)

Servo servo1;

const int servo1PotPin = A0;

const int servo1Pin = 9; // Must use PWM enabled pin

int servo1\_test;

//Step 3 ( servo 2 settings)

Servo servo2;

const int servo2PotPin = A1;

const int servo2Pin = 8; // Must use PWM enabled pin

int servo2\_test;

//Step 4 ( servo 3 settings)

Servo servo3;

const int servo3PotPin = A2;

const int servo3Pin = 10; // Must use PWM enabled pin

int servo3\_test;

//Step 5 ( servo 4 settings)

Servo servo4;

const int servo4PotPin = A3;

const int servo4Pin = 11; // Must use PWM enabled pin

int servo4\_test;

//Step 6 ( servo 5 settings)

Servo servo5;

const int servo5PotPin = A4;

const int servo5Pin = 12; // Must use PWM enabled pin

int servo5\_test;

//Step 7 ( servo 6 settings)

Servo servo6;

const int servo6PotPin = A5;

const int servo6Pin = 13; // Must use PWM enabled pin

int servo6\_test;

//Step 8 (settings the digital pins of servo motors)

void setup() {

servo1.attach(servo1Pin);

servo2.attach(servo2Pin);

servo3.attach(servo3Pin);

servo4.attach(servo4Pin);

servo5.attach(servo5Pin);

servo6.attach(servo6Pin);

}

//Step 9 (settings the Analog pins of servo motors and its angle movement)

void loop() {

servo1\_test = analogRead(servo1PotPin);

servo1\_test = map(servo1\_test, 0, 1023, 180, 0); //servo rotation is only 180 degrees. currently translating potentiometer values to degrees of rotation for servo, currently in reverse

servo1.write(servo1\_test);

servo2\_test = analogRead(servo2PotPin);

servo2\_test = map(servo2\_test, 0, 1023, 180 , 0); //servo rotation is only 180 degrees. currently translating potentiometer values to degrees of rotation for servo, currently in reverse

servo2.write(servo2\_test);

servo3\_test = analogRead(servo3PotPin);

servo3\_test = map(servo3\_test, 0, 1023, 180 , 0); //servo rotation is only 180 degrees. currently translating potentiometer values to degrees of rotation for servo, currently in reverse

servo3.write(servo3\_test);

servo4\_test = analogRead(servo4PotPin);

servo4\_test = map(servo4\_test, 0, 1023, 180 , 0); //servo rotation is only 180 degrees. currently translating potentiometer values to degrees of rotation for servo, currently in reverse

servo4.write(servo4\_test);

servo5\_test = analogRead(servo5PotPin);

servo5\_test = map(servo5\_test, 0, 1023, 180 , 0); //servo rotation is only 180 degrees. currently translating potentiometer values to degrees of rotation for servo, currently in reverse

servo5.write(servo5\_test);

servo6\_test = analogRead(servo6PotPin);

servo6\_test = map(servo6\_test, 0, 1023, 180 , 0); //servo rotation is only 180 degrees. currently translating potentiometer values to degrees of rotation for servo, currently in reverse

servo6.write(servo6\_test);

delay(5);

}