// Motor A

int enA = 9;

int in1 = 8;

int in2 = 7;

// Motor B

int enB = 3;

int in3 = 5;

int in4 = 4;

int pin1 = A2;

int pin2 = A1;

// Motor Speed Values - Start at zero

int MotorSpeed1 = 0;

int MotorSpeed2 = 0;

void setup()

{

// Set all the motor control pins to outputs

pinMode(enA, OUTPUT);

pinMode(enB, OUTPUT);

pinMode(in1, OUTPUT);

pinMode(in2, OUTPUT);

pinMode(in3, OUTPUT);

pinMode(in4, OUTPUT);

}

void loop() {

// Set Motor A forward

digitalWrite(in1, HIGH);

digitalWrite(in2, LOW);

// Set Motor B forward

digitalWrite(in3, HIGH);

digitalWrite(in4, LOW);

// Read the values from the potentiometers

MotorSpeed1 = analogRead(pin1);

MotorSpeed2 = analogRead(pin2);

// Convert to range of 0-255

MotorSpeed1 = map(MotorSpeed1, 0, 1023, 0, 255);

MotorSpeed2 = map(MotorSpeed2, 0, 1023, 0, 255);

// Set the motor speeds

analogWrite(enA, MotorSpeed1);

analogWrite(enB, MotorSpeed2);

}