#define bluetooth Serial

int motorSpeedPin = 9; // pin 9 (PWM) to contorl motor speed

char cmd[100];

int cmdIndex;

void exeCmd() {

if( cmd[0]=='s' &&

cmd[1]=='p' &&

cmd[2]=='e' &&

cmd[3]=='e' &&

cmd[4]=='d' &&

cmd[5]==' ' ) {

int val = 0;

for(int i=6; cmd[i]!=0; i++) { // number begins at cmd[6]

val = val\*10 + (cmd[i]-'0');

}

// if cmd is "speed 100", val will be 100

analogWrite(motorSpeedPin, val);

}

}

void setup() {

delay(500); // wait for bluetooth module to start

bluetooth.begin(115200); // Bluetooth default baud is 115200

pinMode(motorSpeedPin, OUTPUT);

analogWrite(motorSpeedPin, 0);

cmdIndex = 0;

}

void loop() {

if(bluetooth.available()) {

char c = (char)bluetooth.read();

if(c=='\n') {

cmd[cmdIndex] = 0;

exeCmd(); // execute the command

cmdIndex = 0; // reset the cmdIndex

} else {

cmd[cmdIndex] = c;

if(cmdIndex<99) cmdIndex++;

}

}

}