Code for line follower:

int mot1=9;

int mot2=6;

int mot3=5;

int mot4=3;

int left=13;

int right=12;

int Left=0;

int Right=0;

void LEFT (void);

void RIGHT (void);

void STOP (void);

void setup() {

pinMode(mot1,OUTPUT);

pinMode(mot2,OUTPUT);

pinMode(mot3,OUTPUT);

pinMode(mot4,OUTPUT);

pinMode(left,INPUT);

pinMode(right,INPUT);

digitalWrite(left,HIGH);

digitalWrite(right,HIGH);

}

void loop() {

analogWrite(mot1,255);

analogWrite(mot2,0);

analogWrite(mot3,255);

analogWrite(mot4,0);

while(1) {

Left=digitalRead(left);

Right=digitalRead(right);

if((Left==0 && Right==1)==1) LEFT();

else if((Right==0 && Left==1)==1) RIGHT();

}

}

void LEFT (void) {

analogWrite(mot3,0);

analogWrite(mot4,30);

while(Left==0) {

Left=digitalRead(left);

Right=digitalRead(right);

if(Right==0) {

int lprev=Left;

int rprev= Right; STOP();

while(((lprev==Left)&&(rprev==Right))==1) {

Left=digitalRead(left);

Right=digitalRead(right);

}

}

analogWrite(mot1,255);

analogWrite(mot2,0);

}

analogWrite(mot3,255);

analogWrite(mot4,0);

}

void RIGHT (void) {

analogWrite(mot1,0);

analogWrite(mot2,30);

while(Right==0) {

Left=digitalRead(left);

Right=digitalRead(right);

if(Left==0) {

int lprev=Left;

int rprev=Right;

STOP();

while(((lprev==Left)&&(rprev==Right))==1) {

Left=digitalRead(left);

Right=digitalRead(right);

}

}

analogWrite(mot3,255);

analogWrite(mot4,0);

}

analogWrite(mot1,255);

analogWrite(mot2,0);

}

void STOP (void) {

analogWrite(mot1,0);

analogWrite(mot2,0);

analogWrite(mot3,0);

analogWrite(mot4,0);

}