/\*------ Arduino Line Follower Code----- \*/  
/\*-------definning Inputs------\*/  
#define LS 2      // left sensor  
#define RS 3      // right sensor

/\*-------definning Outputs------\*/  
#define LM1 4       // left motor  
#define LM2 5       // left motor  
#define RM1 6       // right motor  
#define RM2 7       // right motor

void setup()  
{  
  pinMode(LS, INPUT);  
  pinMode(RS, INPUT);  
  pinMode(LM1, OUTPUT);  
  pinMode(LM2, OUTPUT);  
  pinMode(RM1, OUTPUT);  
  pinMode(RM2, OUTPUT);  
}

void loop()  
{  
  if(digitalRead(LS) && digitalRead(RS))     // Move Forward  
  {  
    digitalWrite(LM1, HIGH);  
    digitalWrite(LM2, LOW);  
    digitalWrite(RM1, HIGH);  
    digitalWrite(RM2, LOW);  
  }  
    
  if(!(digitalRead(LS)) && digitalRead(RS))     // Turn right  
  {  
    digitalWrite(LM1, LOW);  
    digitalWrite(LM2, LOW);  
    digitalWrite(RM1, HIGH);  
    digitalWrite(RM2, LOW);  
  }  
    
  if(digitalRead(LS) && !(digitalRead(RS)))     // turn left  
  {  
    digitalWrite(LM1, HIGH);  
    digitalWrite(LM2, LOW);  
    digitalWrite(RM1, LOW);  
    digitalWrite(RM2, LOW);  
  }  
    
  if(!(digitalRead(LS)) && !(digitalRead(RS)))     // stop  
  {  
    digitalWrite(LM1, LOW);  
    digitalWrite(LM2, LOW);  
    digitalWrite(RM1, LOW);  
    digitalWrite(RM2, LOW);  
  }  
}