int ledPin=13;  
int sensor1Pin=7;  
int sensor2Pin=6;  
boolean val1 =0;//sağ sensör  
boolean val2 =0;//sol sensör  
const int Enable\_A = 9;  
const int Enable\_B = 10;  
const int inputA1 = 5;  
const int inputA2 = 4;  
const int inputB1 = 3;  
const int inputB2 = 2;  
  
void setup(){  
  pinMode(Enable\_A, OUTPUT);  
  pinMode(Enable\_B, OUTPUT);  
  pinMode(inputA1, OUTPUT);  
  pinMode(inputA2, OUTPUT);  
  pinMode(inputB1, OUTPUT);  
  pinMode(inputB2, OUTPUT);  
  pinMode(ledPin, OUTPUT);  
  pinMode(sensor1Pin, INPUT);  
  pinMode(sensor2Pin, INPUT);  
  Serial.begin (9600);  
}  
    
void loop (){  
  while(true){  
      val1 =digitalRead(sensor1Pin);  
      val2 =digitalRead(sensor2Pin);  
  if (val1==HIGH) { //Sağa dönecek  
    analogWrite(Enable\_A, 80);  
    analogWrite(Enable\_B, 0);  
    digitalWrite(inputA1, LOW);  
    digitalWrite(inputA2, HIGH);  
    digitalWrite(inputB1 , HIGH);  
    digitalWrite(inputB2, LOW);  
    digitalWrite(ledPin, HIGH);  
    Serial.println("saga hareket ediyor");  
    delay(500);  
  }  
  else if(val2==HIGH) { //Sola dönecek  
    analogWrite(Enable\_A, 0);  
    analogWrite(Enable\_B, 80);  
    digitalWrite(inputA1, HIGH);  
    digitalWrite(inputA2, LOW);  
    digitalWrite(inputB1 , LOW);  
    digitalWrite(inputB2, HIGH);  
    digitalWrite(ledPin, HIGH);  
    Serial.println("sola hareket ediyor");  
    delay(500);  
  }  
  else {  
    Serial.println("duz");  
    analogWrite(Enable\_A, 50);  
    analogWrite(Enable\_B, 50);  
    digitalWrite(inputA1, LOW);  
    digitalWrite(inputA2, LOW);  
    digitalWrite(inputB1 , LOW);  
    digitalWrite(inputB2, LOW);  
    digitalWrite(ledPin, LOW);  
      
  }  
}  
}