```
int trigPin = 18;    // Trigger
int echoPin = 19;    // Echo
long duration, cm, inches;

const int IN1 = 7;
const int IN2 = 6;
const int IN3 = 5;
const int IN4 = 4;

//const int ENA = 9;
const int ENB = 3;


void setup() {
  //Serial Port begin
  Serial.begin (9600);
  //Define inputs and outputs
  pinMode(trigPin, OUTPUT);
  pinMode(echoPin, INPUT);

  //pinMode (IN1, OUTPUT);
  //pinMode (IN2, OUTPUT);
  pinMode (IN3, OUTPUT);
  pinMode (IN4, OUTPUT);
  //pinMode (ENA, OUTPUT);
  pinMode (ENB, OUTPUT);
  // put your setup code here, to run once:

}

void loop() {
   // The sensor is triggered by a HIGH pulse of 10 or more microseconds.
  // Give a short LOW pulse beforehand to ensure a clean HIGH pulse:
  digitalWrite(trigPin, LOW);
  delayMicroseconds(5);
  digitalWrite(trigPin, HIGH);
  delayMicroseconds(10);
  digitalWrite(trigPin, LOW);

  // Read the signal from the sensor: a HIGH pulse whose
  // duration is the time (in microseconds) from the sending
  // of the ping to the reception of its echo off of an object.
  pinMode(echoPin, INPUT);
  duration = pulseIn(echoPin, HIGH);

  // Convert the time into a distance
  cm = (duration/2) / 29.1;     // Divide by 29.1 or multiply by 0.0343

  //analogWrite(ENB, 255);
  if(cm<30)
  {
  analogWrite(ENB, 150);
  }
  if(10<cm<30)
```

```
  {
  analogWrite(ENB,80);
  }
  if(cm<10)
  {
  analogWrite(ENB, 0);
  }
  digitalWrite(IN1, HIGH);
  digitalWrite(IN2, LOW);
  digitalWrite(IN3, HIGH);
  digitalWrite(IN4, LOW);

  // put your main code here, to run repeatedly:

}
```