CODE:

```
const int analogInPinl = A0; // Analog input pin that the potentiometer is attached to
const int analogInPin2 = A5;
int sensorValuel = 0;
                          // value read from the pot
int sensorValue2 = 0;
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.begin(9600);
 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:
1
void loop() {
  digitalWrite(IN1, HIGH);
  digitalWrite(IN2, LOW);
  digitalWrite(IN3, HIGH);
  digitalWrite(IN4, LOW);
  // put your main code here, to run repeatedly:
  // read the input on analog pin 0:
  int sensorValuel = analogRead(A0);
  // print out the value you read:
  int sensorValue2 = analogRead(A5);
  Serial.print("sensorl = ");
  Serial.print(sensorValuel);
  Serial.print("\t sensor2 = ");
  Serial.println(sensorValue2);
  if(sensorValue1>800)
  analogWrite(ENA, 255);
  else if((sensorValuel>600)&&(sensorValuel<=800))
  analogWrite(ENA, 190);
  else if((sensorValue1>400)&&(sensorValue1<=600))
```

```
analogWrite(ENA, 130);
else if((sensorValuel>200)&&(sensorValuel<=400))
analogWrite(ENA, 100);
else{
 analogWrite(ENA, 0);
if(sensorValue2>800)
analogWrite(ENB, 255);
else if((sensorValue2>600)&&(sensorValue2<=800))
analogWrite(ENB, 190);
else if((sensorValue2>400)&&(sensorValue2<=600))
analogWrite(ENB, 130);
else if((sensorValue2>200)&&(sensorValue2<=400))
 analogWrite(ENB, 100);
 else{
  analogWrite(ENB, 0);
 delay(1);
}
```