const int led=4;

const int DC=3;

const int pot=A0;

int motor;

void setup()

{

pinMode(DC,OUTPUT);

pinMode(led,OUTPUT);

Serial.begin(9600);

}

void loop()

{

motor=analogRead(pot);

motor=map(motor,0,1023,0,255);

analogWrite(DC, motor);

Serial.println(motor);

if (motor>150)

{

digitalWrite(led,HIGH);

}

else{

digitalWrite(led,LOW);

}

}

