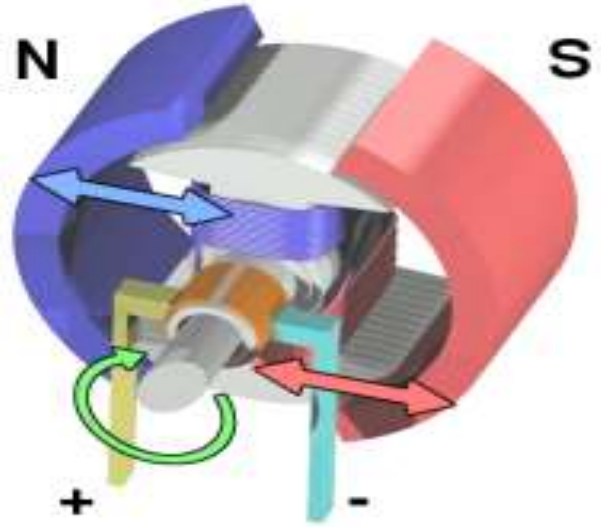
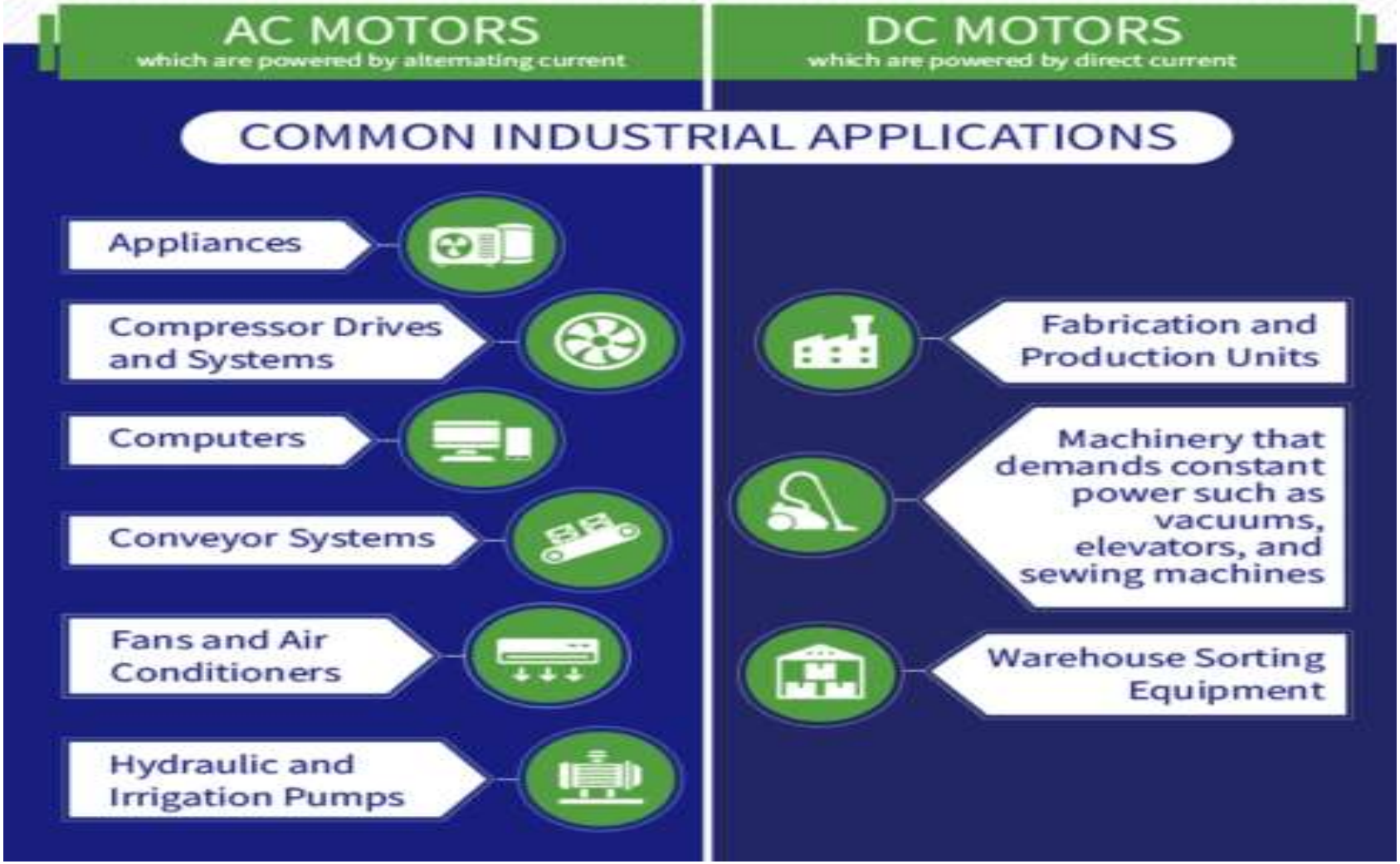
DC MOTOR

What is DC Motor ?

- A DC motor is any of a class of rotary electrical motors that converts direct current (DC) electrical energy into mechanical energy

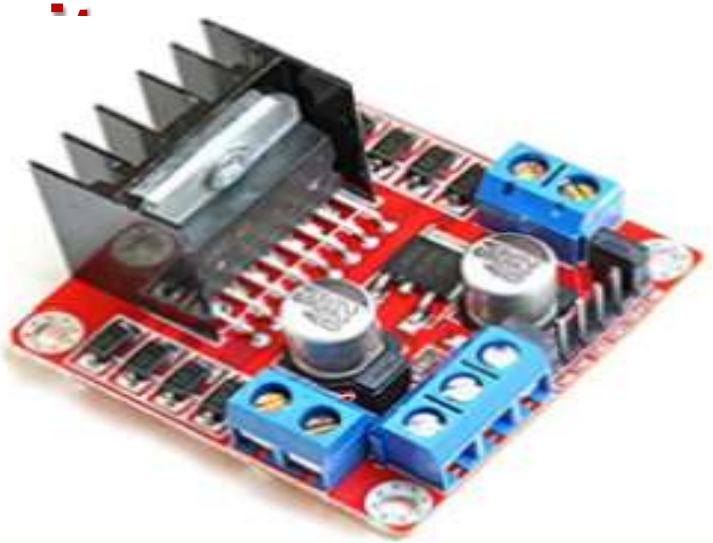


Application of Motors



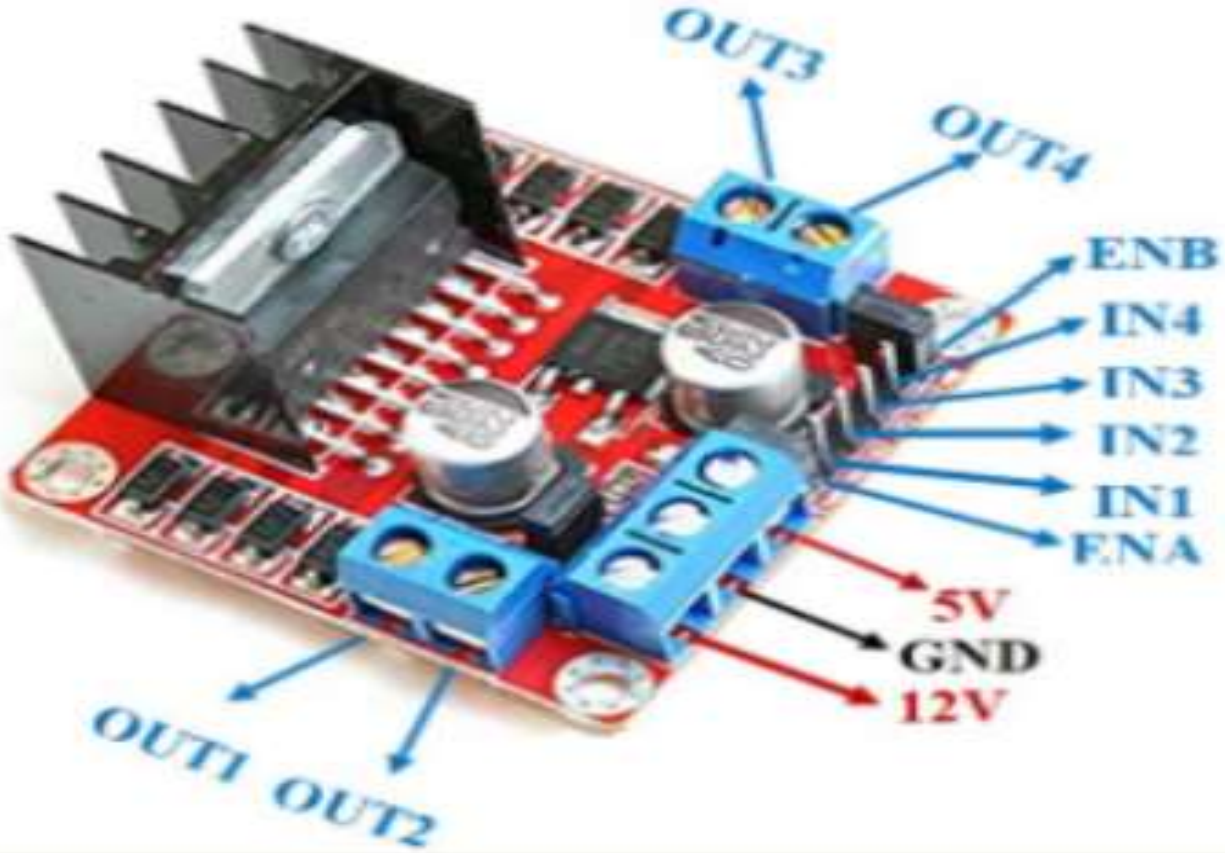
Understanding motor driver

- The L298N Motor Driver module consists of an L298 Motor Driver IC, 78M05 Voltage Regulator, resistors, capacitor, Power LED, 5V jumper in an integrated



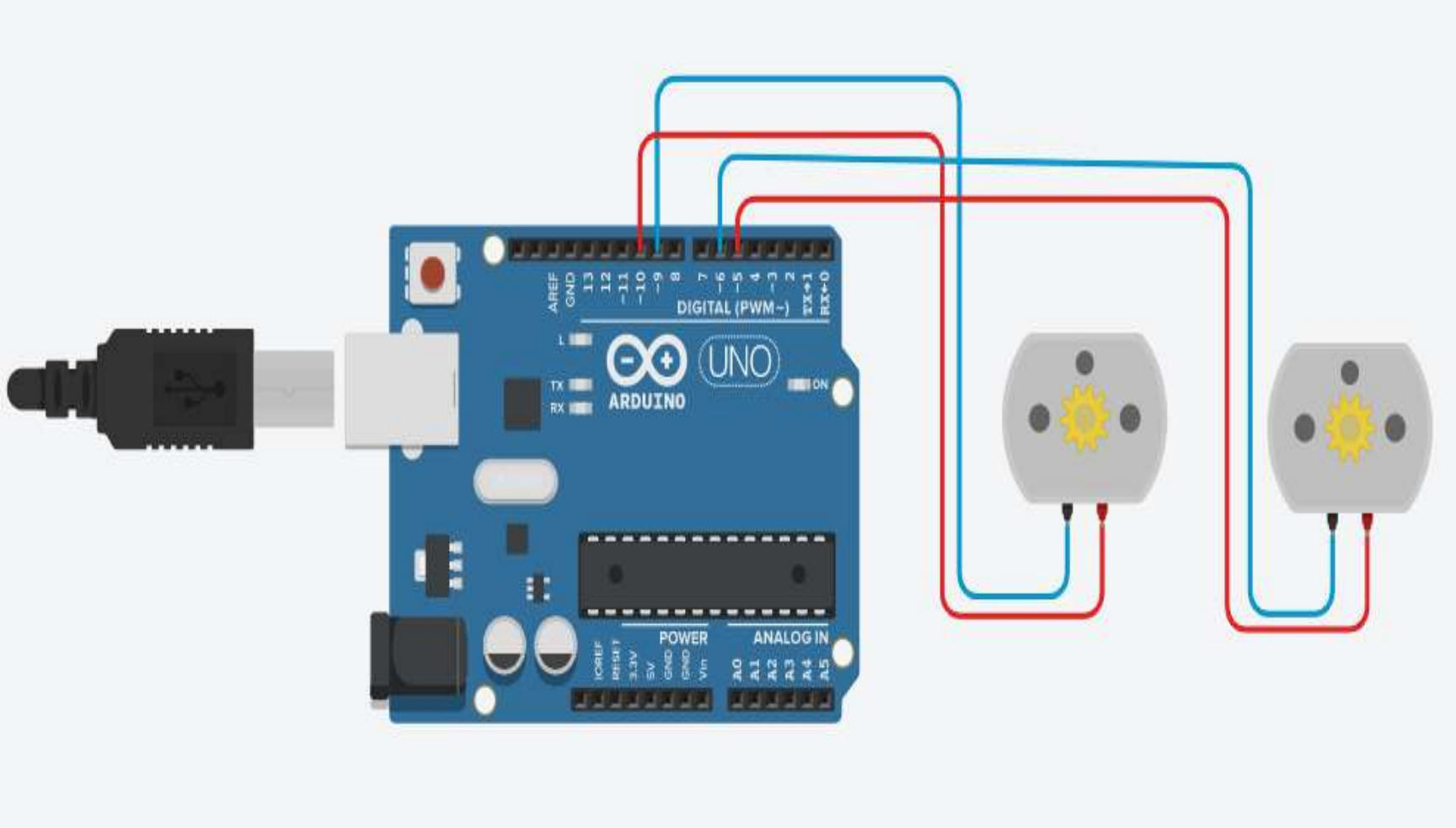
L298N Motor Driver Module

Pin Configurations



L298N Motor Driver Module Pinout

Interfacing 2 DC Motor with Arduino :



Coding.....

```
int m1p=9;
int m1n=10;
int m2p=5;
int m2n=6;

void setup()
{
  pinMode(m1p,OUTPUT);
  pinMode(m1n,OUTPUT);
  pinMode(m2p,OUTPUT);
  pinMode(m2n,OUTPUT);
  Serial.begin(9600);
}
```

```
void loop()
{
  if (Serial.available()){
char command=Serial.read();
    if(command=='L'){
      digitalWrite(m1p,LOW);
      digitalWrite(m1n,HIGH);
    }
    else if(command=='R'){
      digitalWrite(m2p,HIGH);
      digitalWrite(m2n,LOW);
    }
   else if(command=='S'){
      digitalWrite(m1p,LOW);
      digitalWrite(m1n,LOW);
      digitalWrite(m2p,LOW);
      digitalWrite(m2n,LOW);
    }
      }}
```

THANK
YOU!