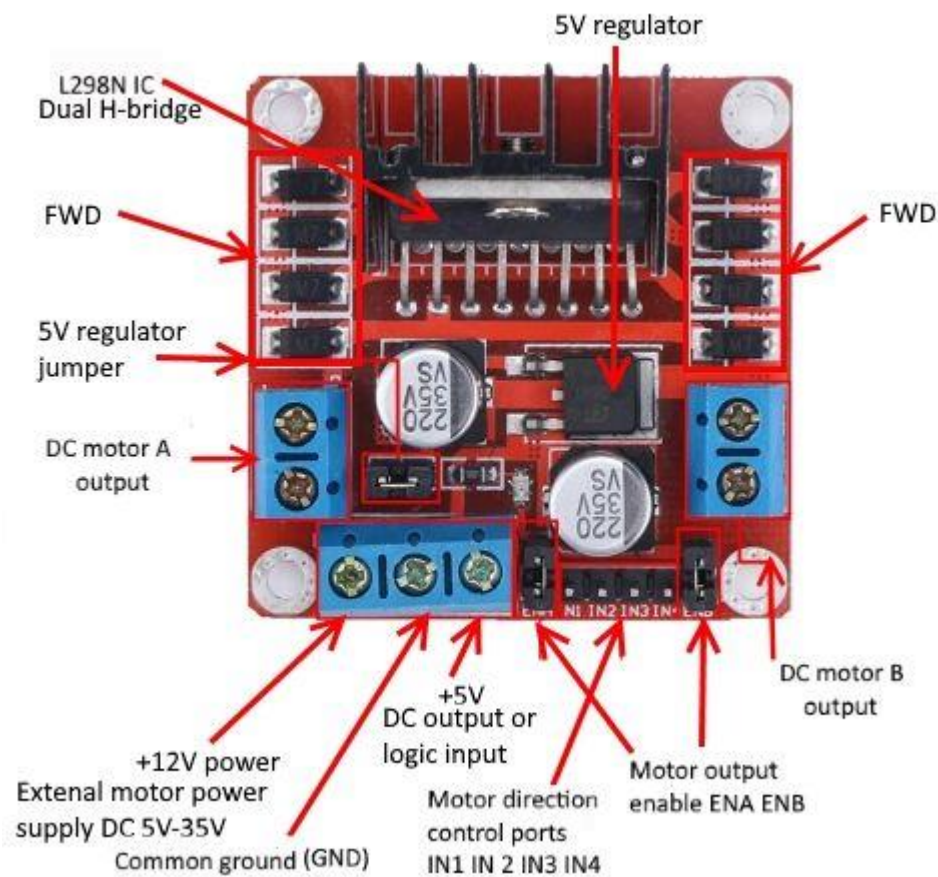


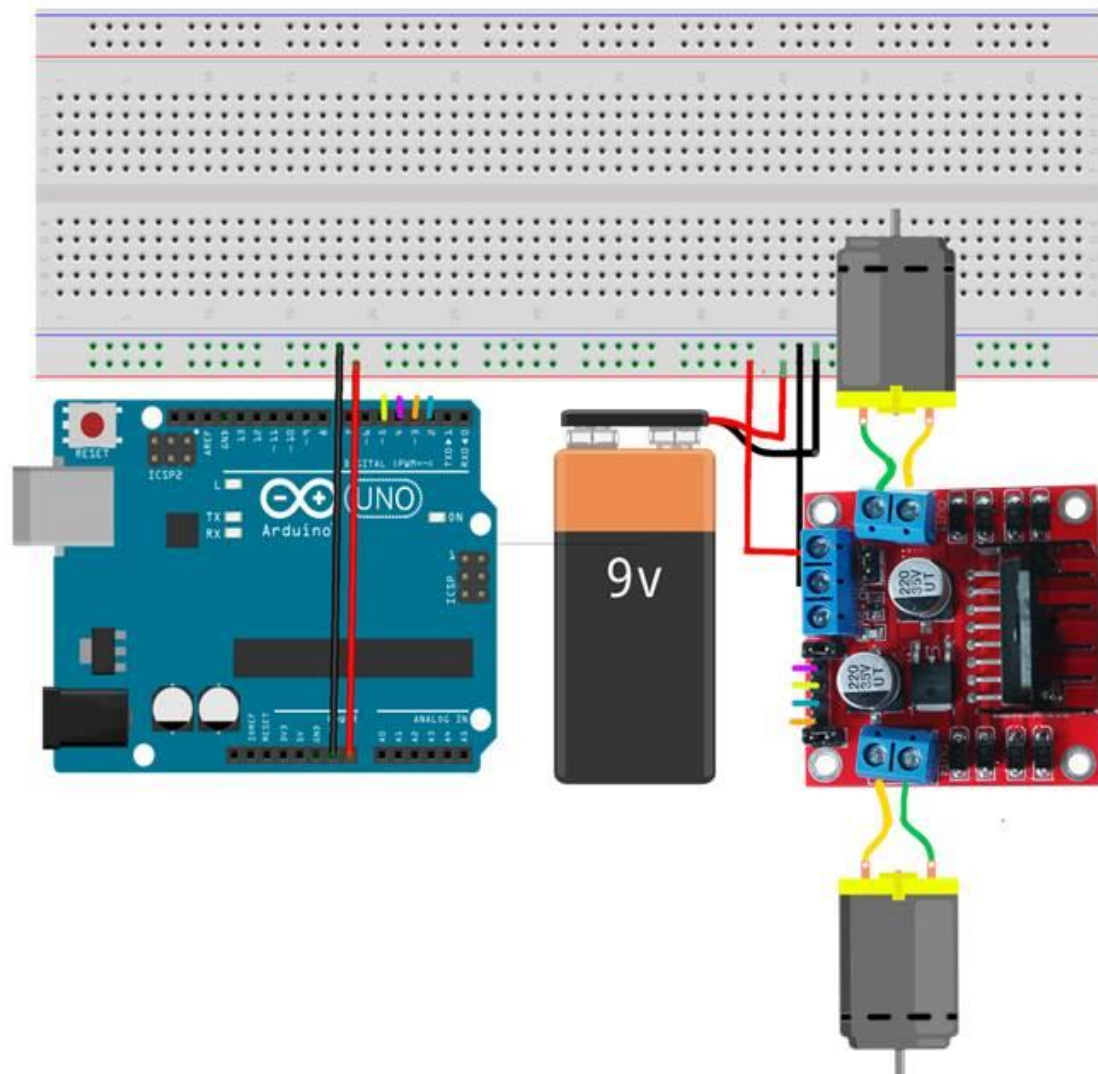
H-Bridge Module



And you can see this link for tutorial

<https://howtomechatronics.com/tutorials/arduino/arduino-dc-motor-control-tutorial-l298n-pwm-h-bridge/>

Connecting:



Code:

```
/*
**h-bridge using 2 dc motors
*Movements :
    Forward ==> out1 on    BackWord ==> out1 off
                  out2 off          out2 on
                  out3 off          out3 on
                  out4 on          out4 off
    Left ==> out1 on       Right ==> out1 off
                  out2 off          out2 on
                  out3 on           out3 off
                  out4 off          out4 on
*it's better to work with functions like : forward==> f() ,
Backword==> b() ,right==> r() ,left==> l() ,stop ==> s()
*/
// defining motor pins
#define out1 5 // for motor 1
#define out2 6 // for motor 1
#define out3 7 // for motor 2
#define out4 8 // for motor 2

void setup() {
    // put your setup code here, to run once:
    // defining pins as OUTPUT
    pinMode(out1,OUTPUT);
    pinMode(out2,OUTPUT);
    pinMode(out3,OUTPUT);
    pinMode(out4,OUTPUT);
}

void loop() {
    // put your main code here, to run repeatedly:
    b(); //move forward
    delay(500); //wait 500 ms
    s(); //stop
    delay(500); //wait 500 ms
    r(); // go right
    delay(500);
    s(); //stop
    delay(500); //wait 500 ms
    f(); //go forward
    delay(500); // wait 500 ms
    s(); //stop
    delay(500); //wait 500 ms
    l(); //go left
    delay(500); //wait 500 ms
    s(); //stop
}
```

```
    delay(500); //wait 500 ms
}

/** functions */
void b() // backward
{
    digitalWrite(out1, LOW); //out1 off
    digitalWrite(out2, HIGH); // out2 on
    digitalWrite(out3, HIGH); //out3 on
    digitalWrite(out4, LOW); //out4 off
}
void f() // forward
{
    digitalWrite(out1, HIGH); //out1 on
    digitalWrite(out2, LOW); //out2 off
    digitalWrite(out3, LOW); //out3 off
    digitalWrite(out4, HIGH); //out4 on
}
void l() // left
{
    digitalWrite(out1, HIGH); //out1 on
    digitalWrite(out2, LOW); //out2 off
    digitalWrite(out3, HIGH); //out3 on
    digitalWrite(out4, LOW); //out4 off
}
```

3

```
void r() // right
{
    digitalWrite(out1, LOW); //out1 off
    digitalWrite(out2, HIGH); //out2 on
    digitalWrite(out3, LOW); //out3 off
    digitalWrite(out4, HIGH); //out4 on
}
void s() // stop
{
    //all is LOW
    digitalWrite(out1, LOW);
    digitalWrite(out2, LOW);
    digitalWrite(out3, LOW);
    digitalWrite(out4, LOW);
}
```

4