

DC Motor

Overview



This experiment controls the rotation and stop of the DC motor.

Specification


Rated Voltage: DC 6V

Speed: 5000 RPM

Pin definition

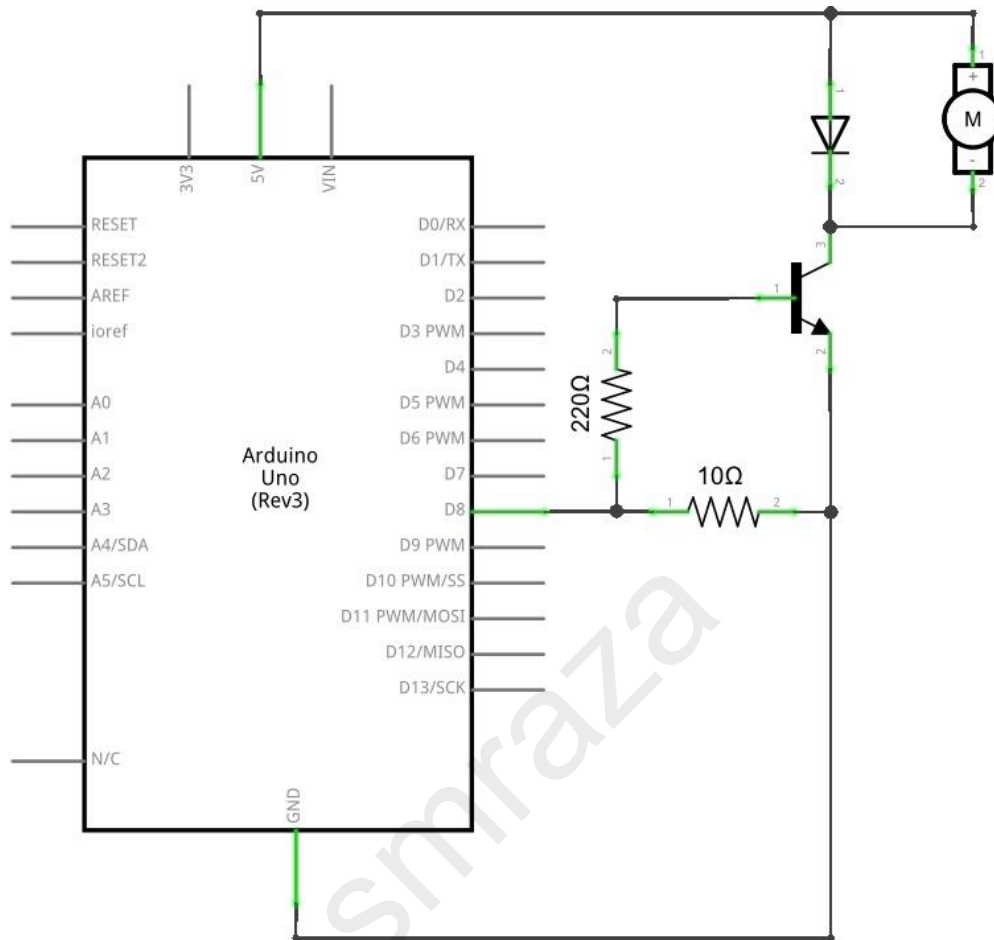
Null

Hardware required

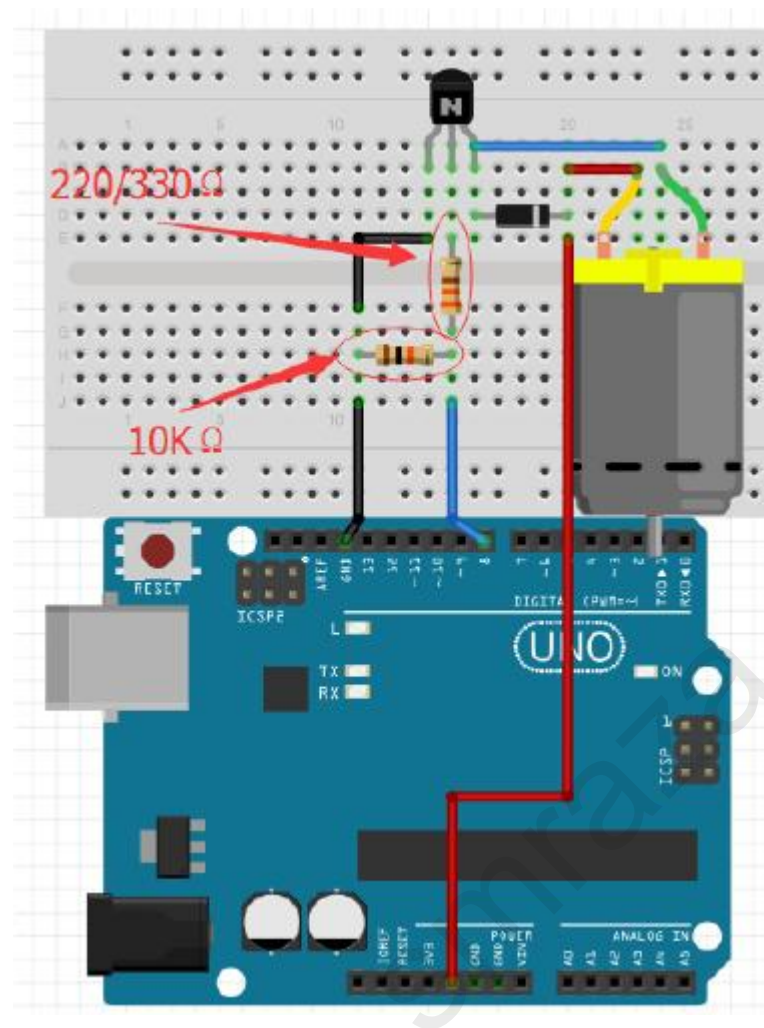
Material diagram	Material name	Number
	DC Motor	1
	2N3904	1
	IN4148	1
	220/330Ω resistor	1
	10KΩ resistor	1
	USB Cable	1
	UNO R3	1
	Breadboard	1
	Jumper wires	Several

Connection

Schematic



Connection diagram



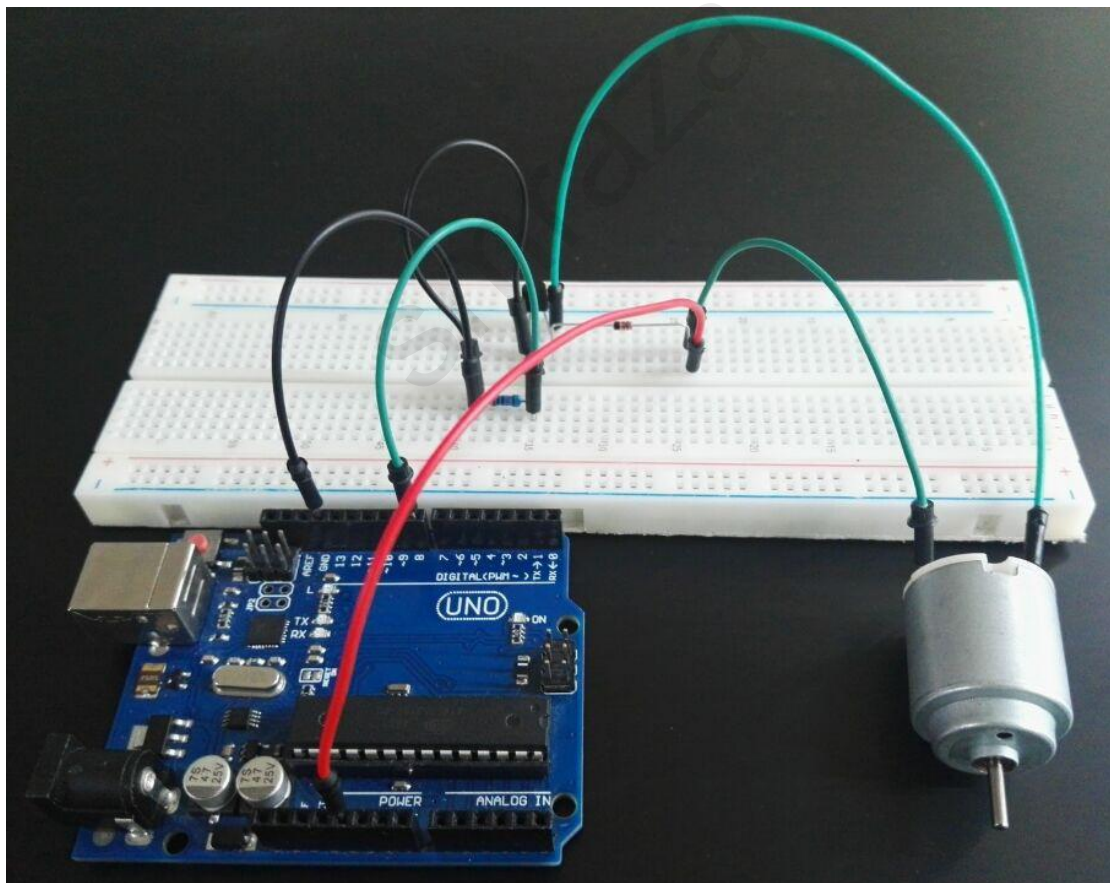
Note:
Pay attention to the direction of the diode(IN4148).

Sample code

Note: sample code under the **Sample code** folder

```
int motor = 8;           // motor turn-on trigger signal - active high;
void setup (void)
{
    pinMode (motor, OUTPUT); // define port attribute for the output;
}
void loop (void)
{
    digitalWrite (motor, HIGH); //
    delay (1000);
    digitalWrite (motor, LOW); //switch;
    delay (1000);
}
```

Example picture



Language reference

Null

Application effect

You'll see the motor stop and turn.

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