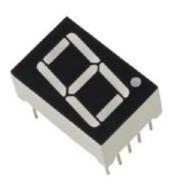


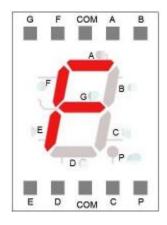
1 digit LED Segment Displays

Overview



This experiment is similar to the LED experiment, the same is the control of LED, but the experiment can achieve time counting function.

Pin definition



Hardware required

Material diagram	Material name	Number		
	1 digit LED Segment Displays	1		
	220/330Ω resistor	7		
	USB Cable	1		
	UNO R3	1		
	Breadboard	1		
	Jumper wires	Several		

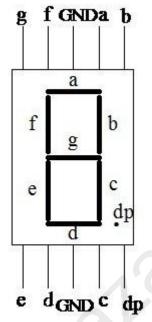
1



Component Introduction

Seven segment display

Below is the seven-segment pin diagram.



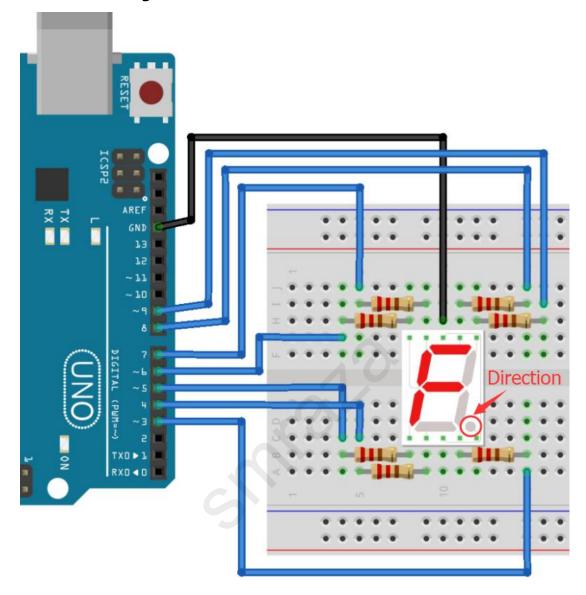
0-9 ten digits correspond with each segment are as follows (the following table applies common cathode seven segment display device, if you are using a common anode, the table should be replaced every 1 0 should all replaced by 1):

Diameter		y 1).						
Display digital	dp	a	b	С	d	e	f	g
0	0	1	1	1	1	1	1	0
1	0	0	1	1	0	0	0	0
2	0	1	1	0	1	1	0	1
3	0	1	1	1	1	0	0	1
4	0	0	1	1	0	0	1	1
5	0	1	0	1	1	0	1	1
6	0	1	0	1	1	1	1	1
7	0	1	1	1	0	0	0	0
8	0	1	1	1	1	1	1	1
9	0	1	1	1	1	0	1	1

2



Connection diagram



Note: Pay attention to the direction of digital tube.

Connection:

UNO R3	SEG
D3	->C
D4	->D
D5	->E
D6	->G
D7	->F
D8	->A
D9	->B
GND	->CON

3



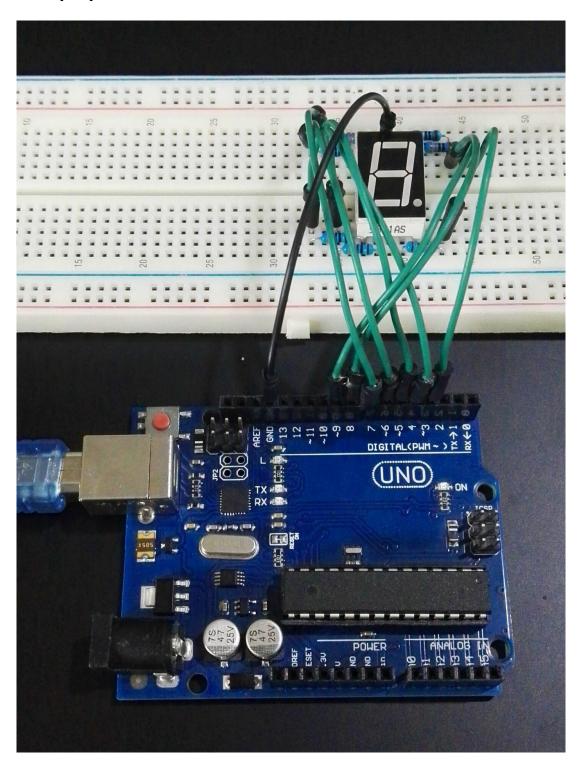
Sample code

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

```
int a[10][10]={
     {0,0,0,1,1,1,0,1,1,1}, //0
     \{0,0,0,1,0,0,0,0,0,1\}, //1
     \{0,0,0,0,1,1,1,0,1,1\}, //2
     {0,0,0,1,1,0,1,0,1,1}, //3
     {0,0,0,1,0,0,1,1,0,1}, //4
     {0,0,0,1,1,0,1,1,1,0}, //5
     {0,0,0,1,1,1,1,1,1,0}, //6
     \{0,0,0,1,0,0,0,0,1,1\}, //7
     {0,0,0,1,1,1,1,1,1,1}, //8
     {0,0,0,1,1,0,1,1,1,1},}; //9
void setup()
{
     for (int i=3; i<=9; i++)
          pinMode(i,OUTPUT);
     }
}
void printf(int v)
{
     for (int i=3; i<=9; i++)
          digitalWrite(i,a[v][i]);
     }
}
void loop()
{
     for (int i=0; i < =9; i++)
          printf(i);
          delay(400);
    }
}
```



Example picture





Language reference

array

Application effect

You will see the number on the digital tube increased from 0 to 9.

* We are a leading manufacturer of electronic components for Arduino and Raspberry Pi.

* Official website: http://www.smraza.com/

* We have a professional engineering team dedicated to providing tutorials and support to help you get started.

* If you have any technical questions, please feel free to contact our support staff via email at support@smraza.com

* We truly hope you enjoy the product, for more great products please visit our

Amazon US store: http://www.amazon.com/shops/smraza

Amazon CA store: https://www.amazon.ca/shops/AMIHZKLK542FQ
Amazon UK store: http://www.amazon.co.uk/shops/AVEAJYX3AHG8Q
Amazon DE store: http://www.amazon.de/shops/AVEAJYX3AHG8Q
Amazon IT store: http://www.amazon.it/shops/AVEAJYX3AHG8Q
Amazon ES store: https://www.amazon.es/shops/AVEAJYX3AHG8Q

^{*} About Smraza: