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7 SEGMENT DISPLAY ON ARDUINO

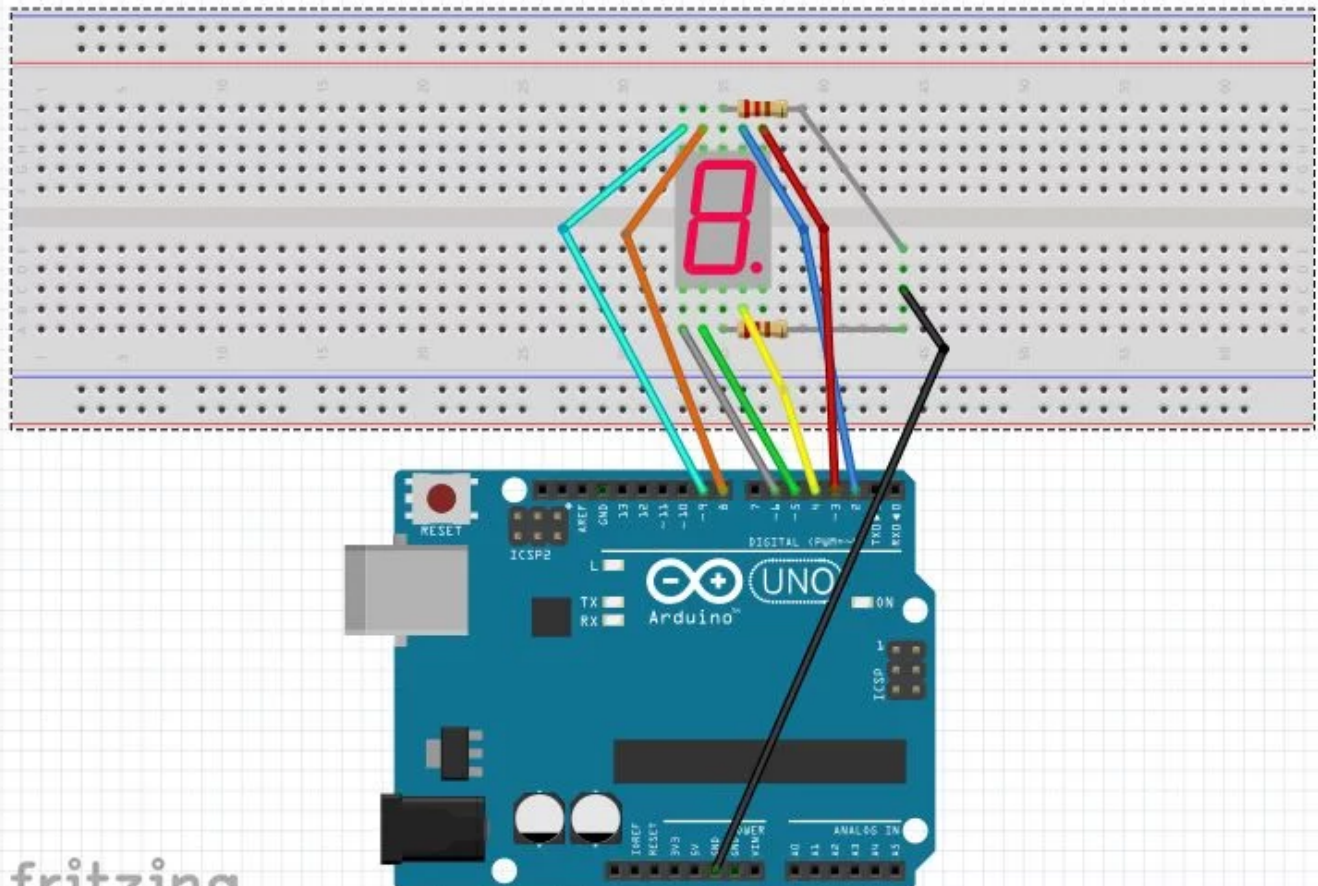
By SherMarri in Technology > Arduino 176,467 61 35



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By **SherMarri**

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This instructable shows how to display 0-9 digits on 7 Segment Display using Arduino.

What do you need:

- Arduino Uno 3
- 7 Seven Segment Display
- 2 x 220 Ohm Resistors
- Jumper Wires



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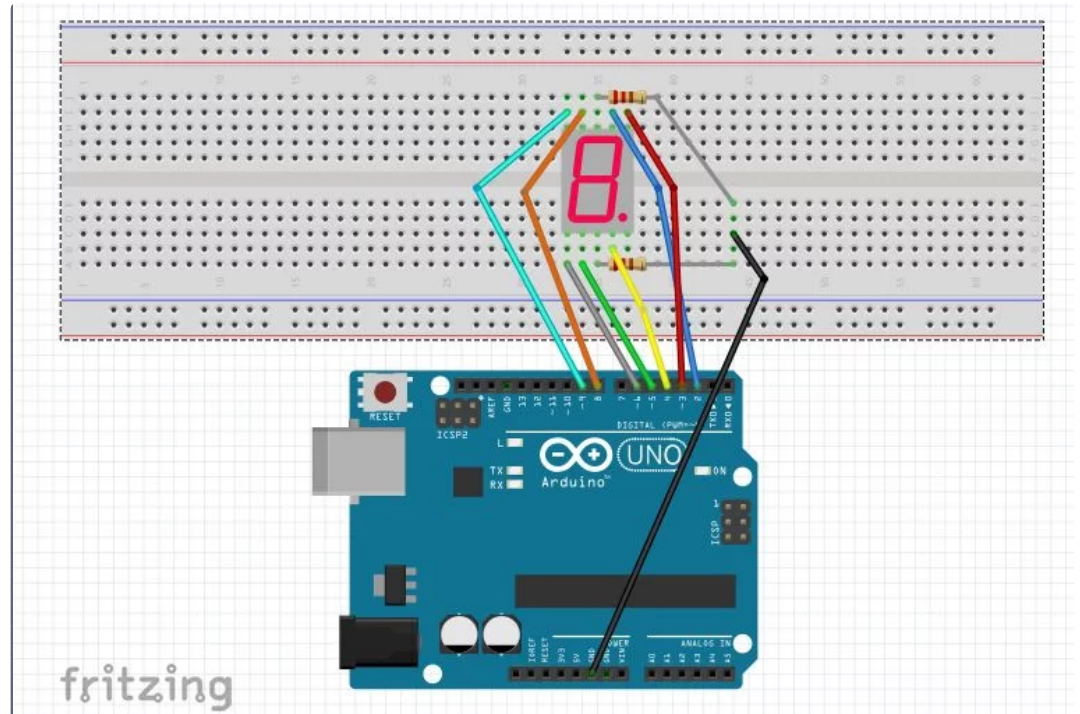
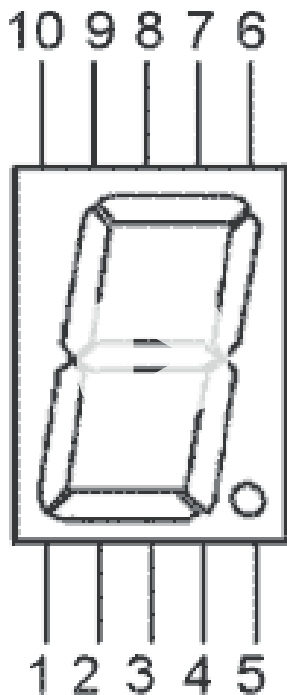


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Step 1: Making Connections



Connect the pins described below:

1. Arduino Pin 2 to Pin 9.



3. Arduino Pin 4 to Pin 4.

4. Arduino Pin 5 to Pin 2..

5. Arduino Pin 6 to Pin 1.

6. Arduino Pin 8 to Pin 7.

7. Arduino Pin 9 to Pin 6.

8. GND to Pin 3 and Pin 8 each connected with 220 ohm resistors.



7 Segment Frizting Sk...

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Step 2: Arduino Code

```
int a = 2; //For displaying segment "a"
```

```
int b = 3; //For displaying segment "b"  
int c = 4; //For displaying segment "c"  
int d = 5; //For displaying segment "d"  
int e = 6; //For displaying segment "e"  
int f = 8; //For displaying segment "f"  
int g = 9; //For displaying segment "g"
```

```
void setup() {  
  pinMode(a, OUTPUT); //A  
  pinMode(b, OUTPUT); //B  
  pinMode(c, OUTPUT); //C  
  pinMode(d, OUTPUT); //D  
  pinMode(e, OUTPUT); //E  
  pinMode(f, OUTPUT); //F  
  pinMode(g, OUTPUT); //G  
}
```



```
//Conditions for displaying segment a
if(digit!=1 && digit != 4)
digitalWrite(a,HIGH);

//Conditions for displaying segment b
if(digit != 5 && digit != 6)
digitalWrite(b,HIGH);

//Conditions for displaying segment c
if(digit !=2)
digitalWrite(c,HIGH);

//Conditions for displaying segment d
if(digit != 1 && digit !=4 && digit !=7)
digitalWrite(d,HIGH);

//Conditions for displaying segment e
if(digit == 2 || digit ==6 || digit == 8 || digit==0)
digitalWrite(e,HIGH);

//Conditions for displaying segment f
if(digit != 1 && digit !=2 && digit!=3 && digit !=7)
digitalWrite(f,HIGH);
if (digit!=0 && digit!=1 && digit !=7)

for(int i=0;i<10;i++)
{
  displayDigit(i);
  delay(1000);
  turnOff();
}
}
```

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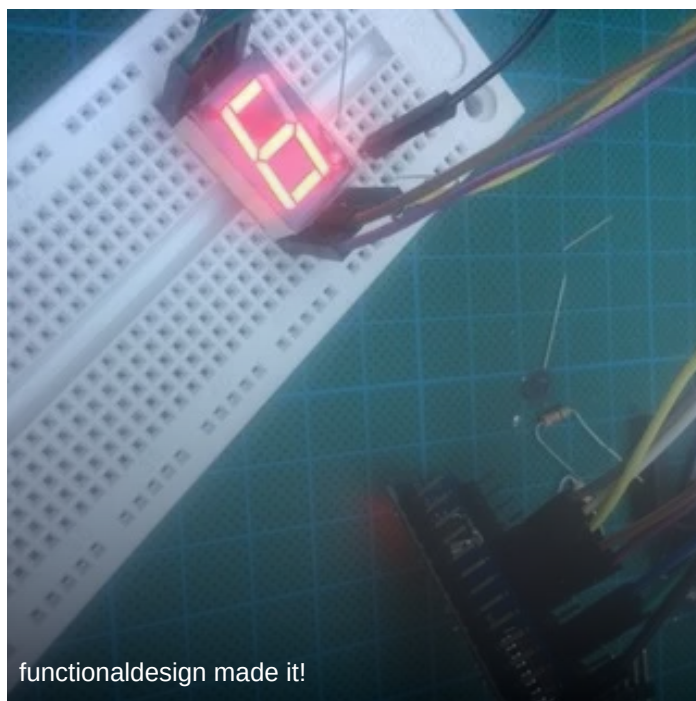
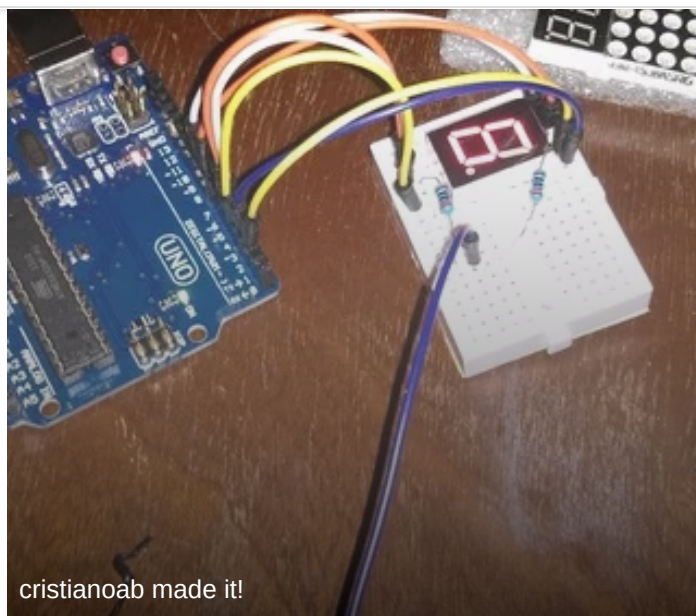
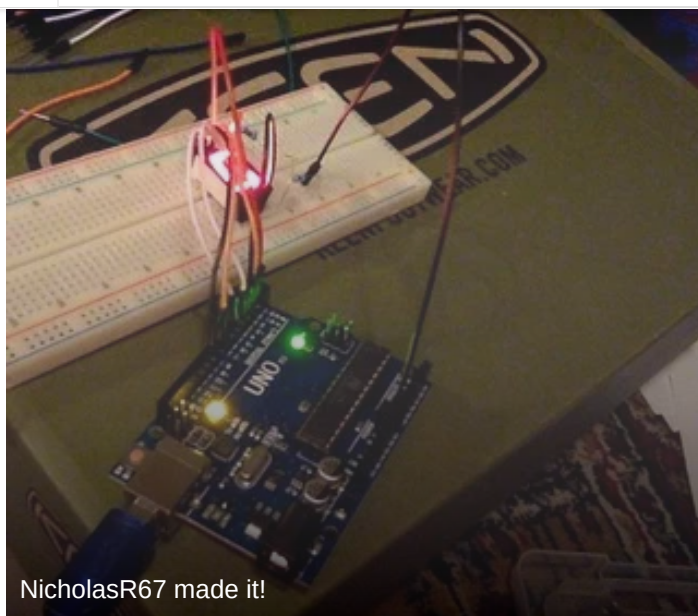


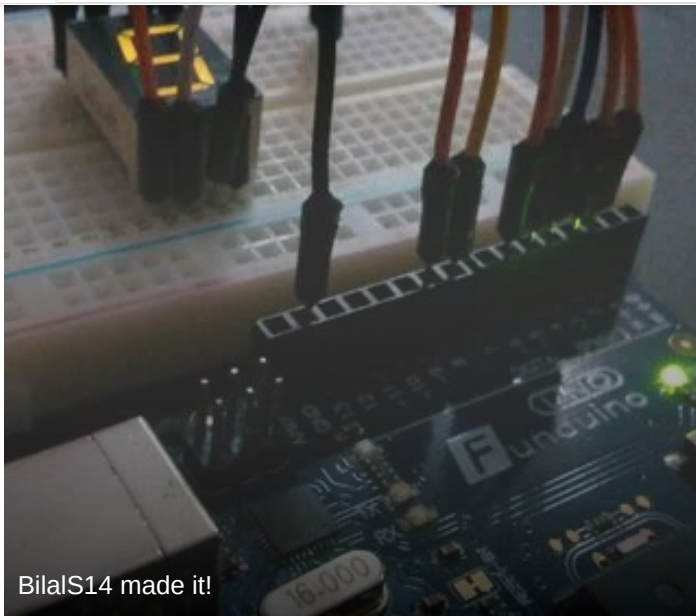
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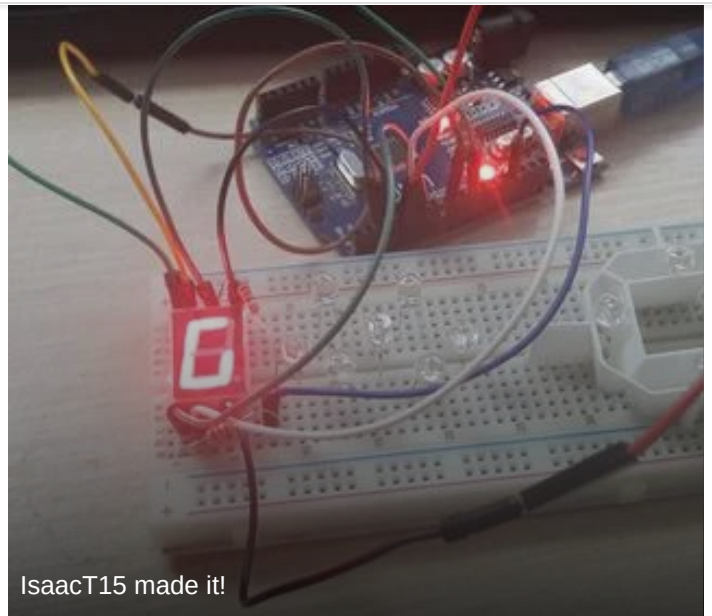
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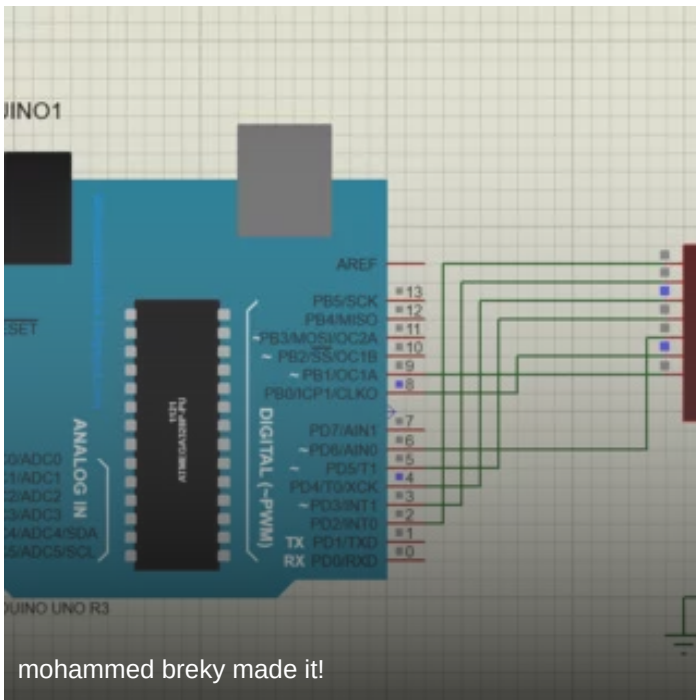




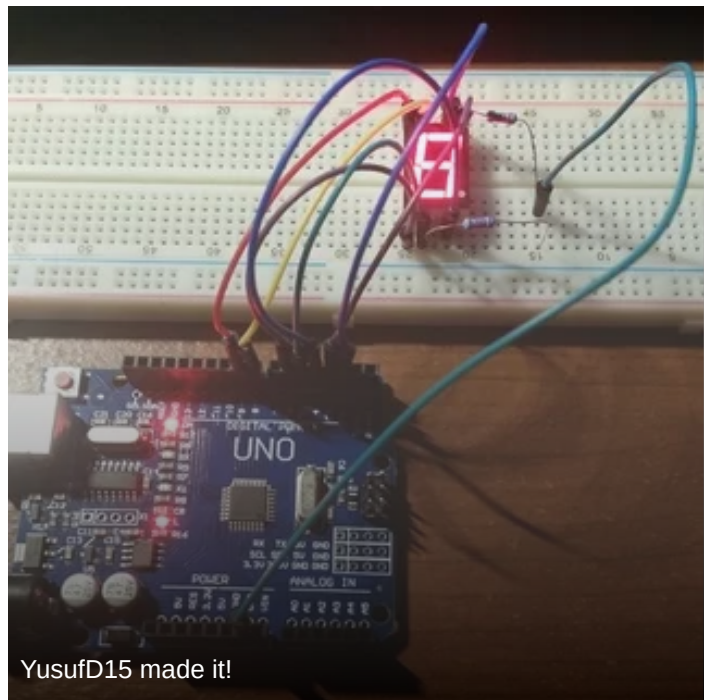
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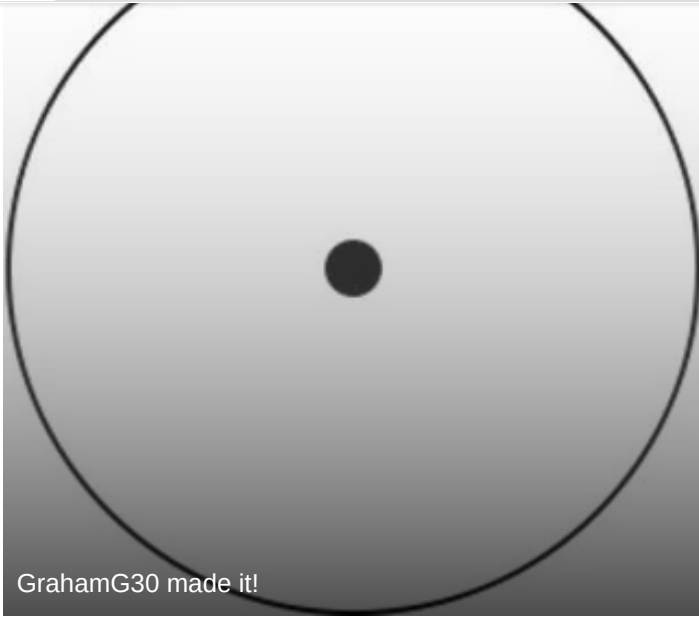
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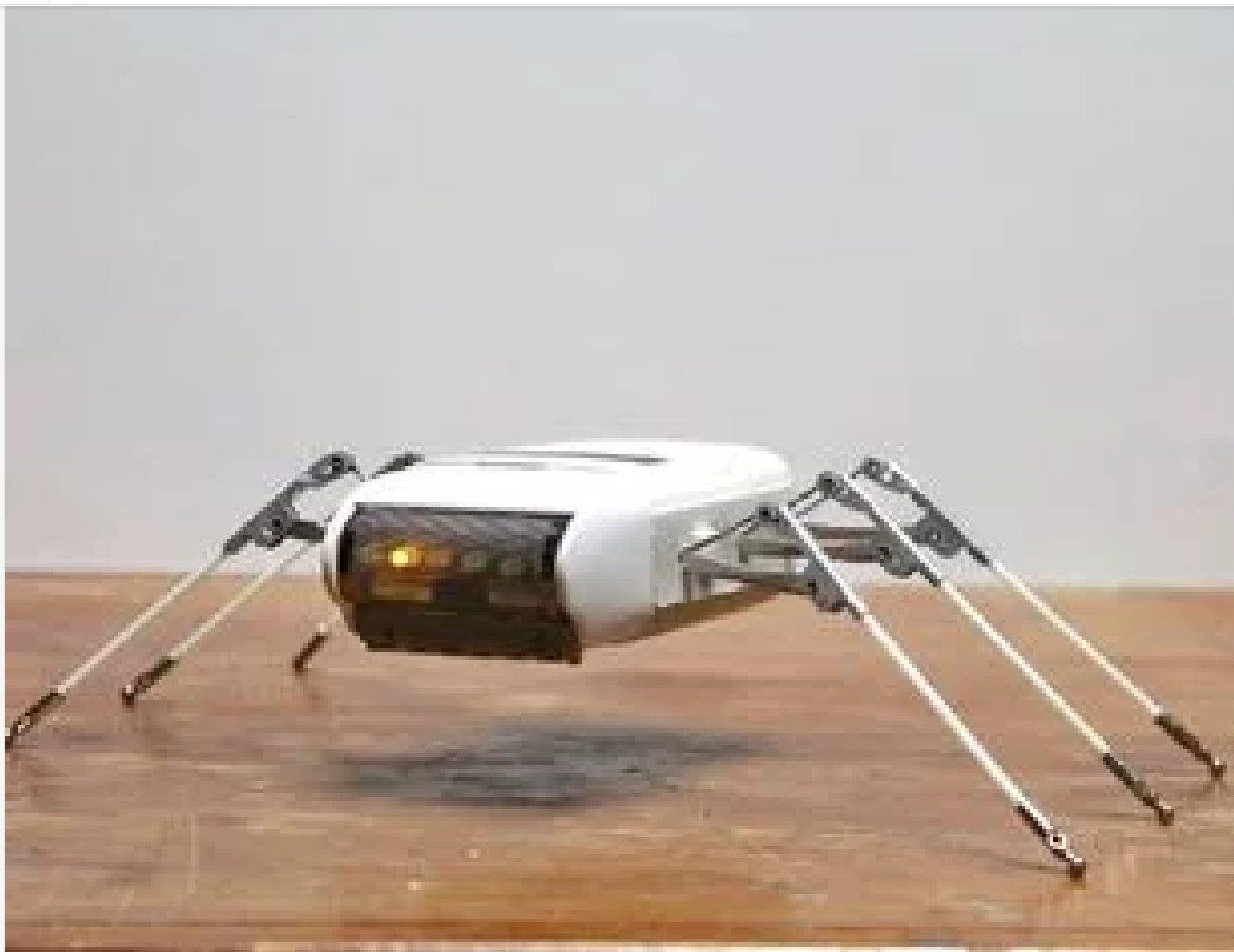
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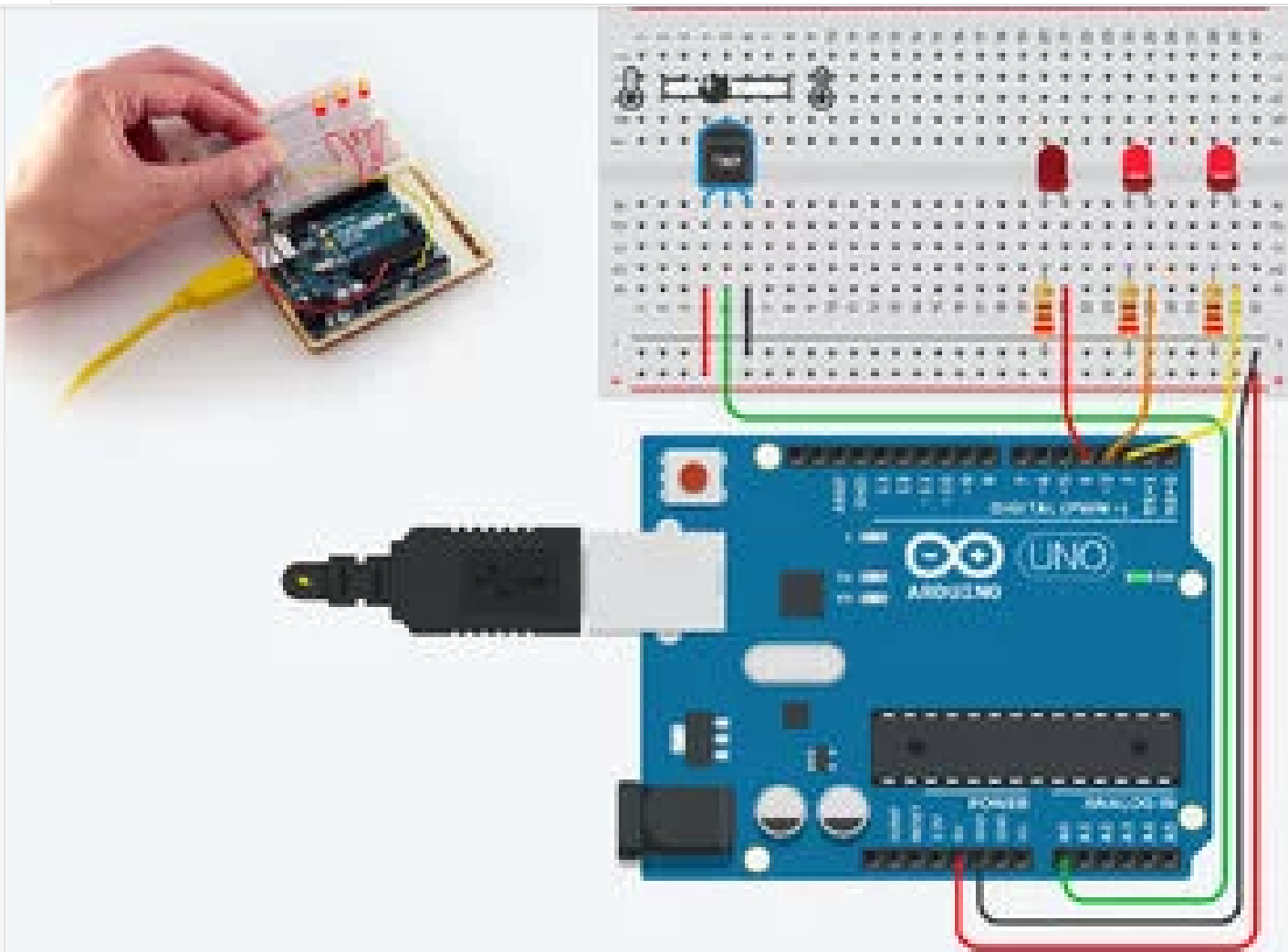
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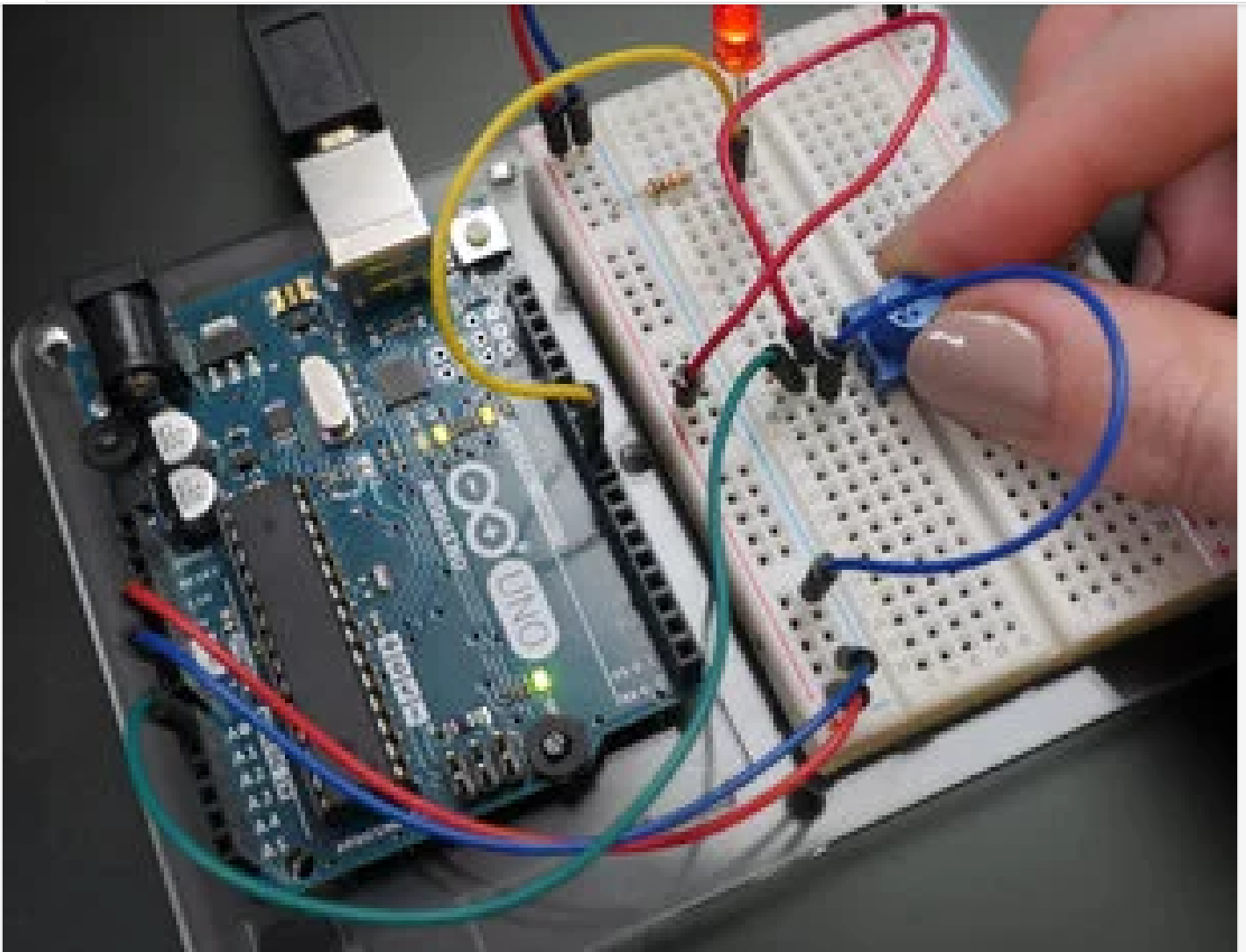
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a-sacramento 20 days ago

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If have two displays how I command the second display? Do you have a solution for that?



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What's the ! mark after digit mean?

2 replies ▾



ViduraM1 13 months ago

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its working great, better to configure the jumper wires as its in the fritzing diagram.
Thanks



tcspratlin42 Question 7 months ago on [Introduction](#)

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What is the part number for the 7 seven segment display?



gajesh123 7 months ago

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How to run it?



Jaromír 7 months ago

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