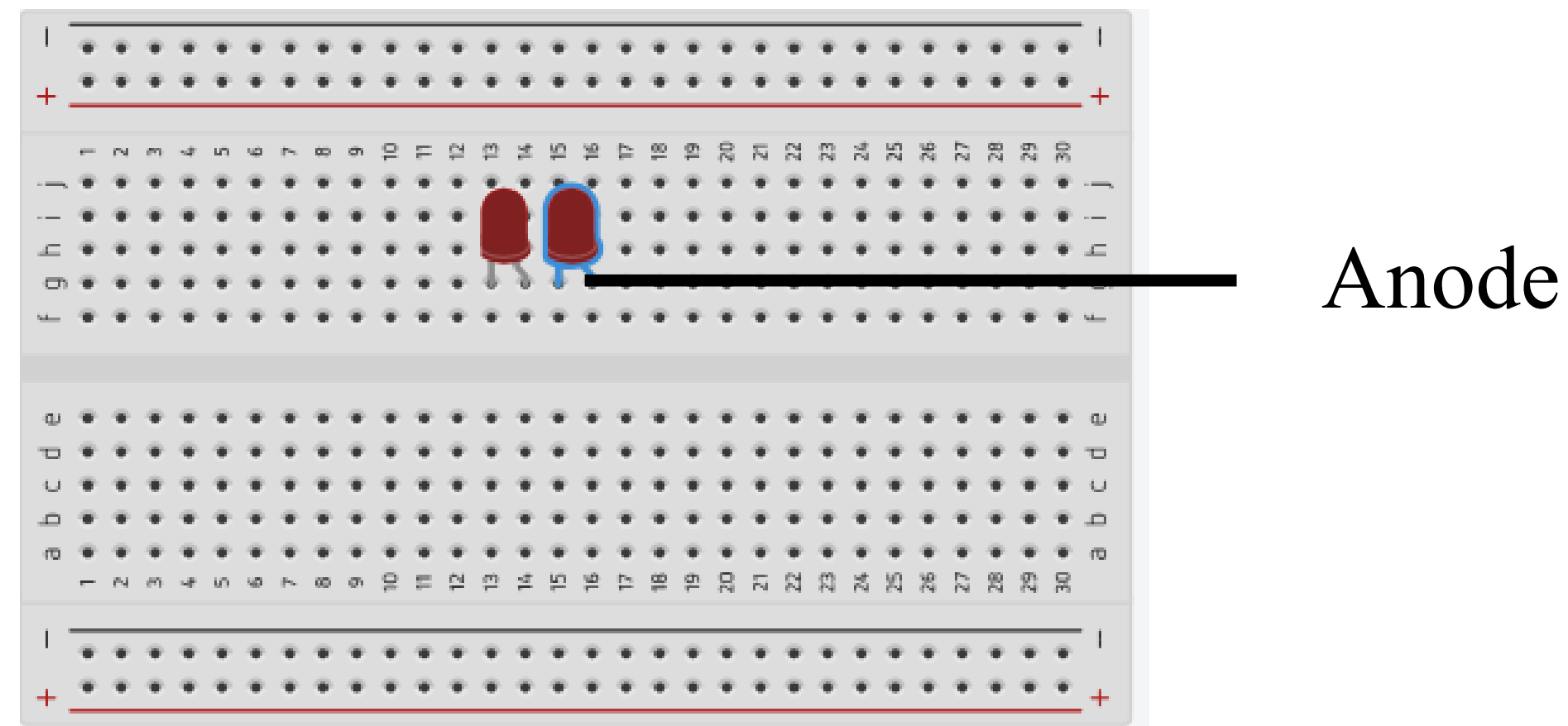


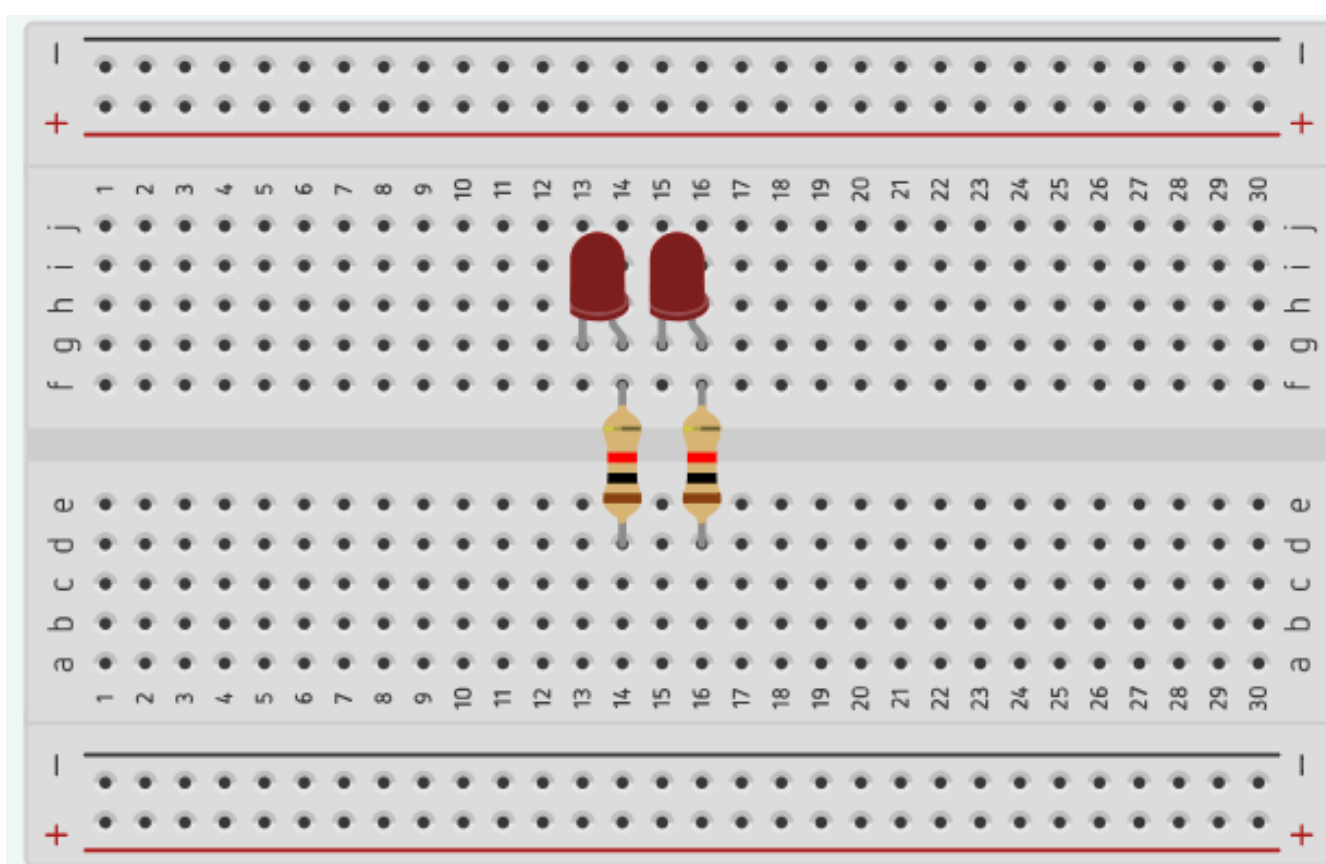
Instruction for LED Light Chaser

Step 1 Collect all components: Arduino Uno, breadboard, LEDs, resistors, jumper wires, and USB cable.

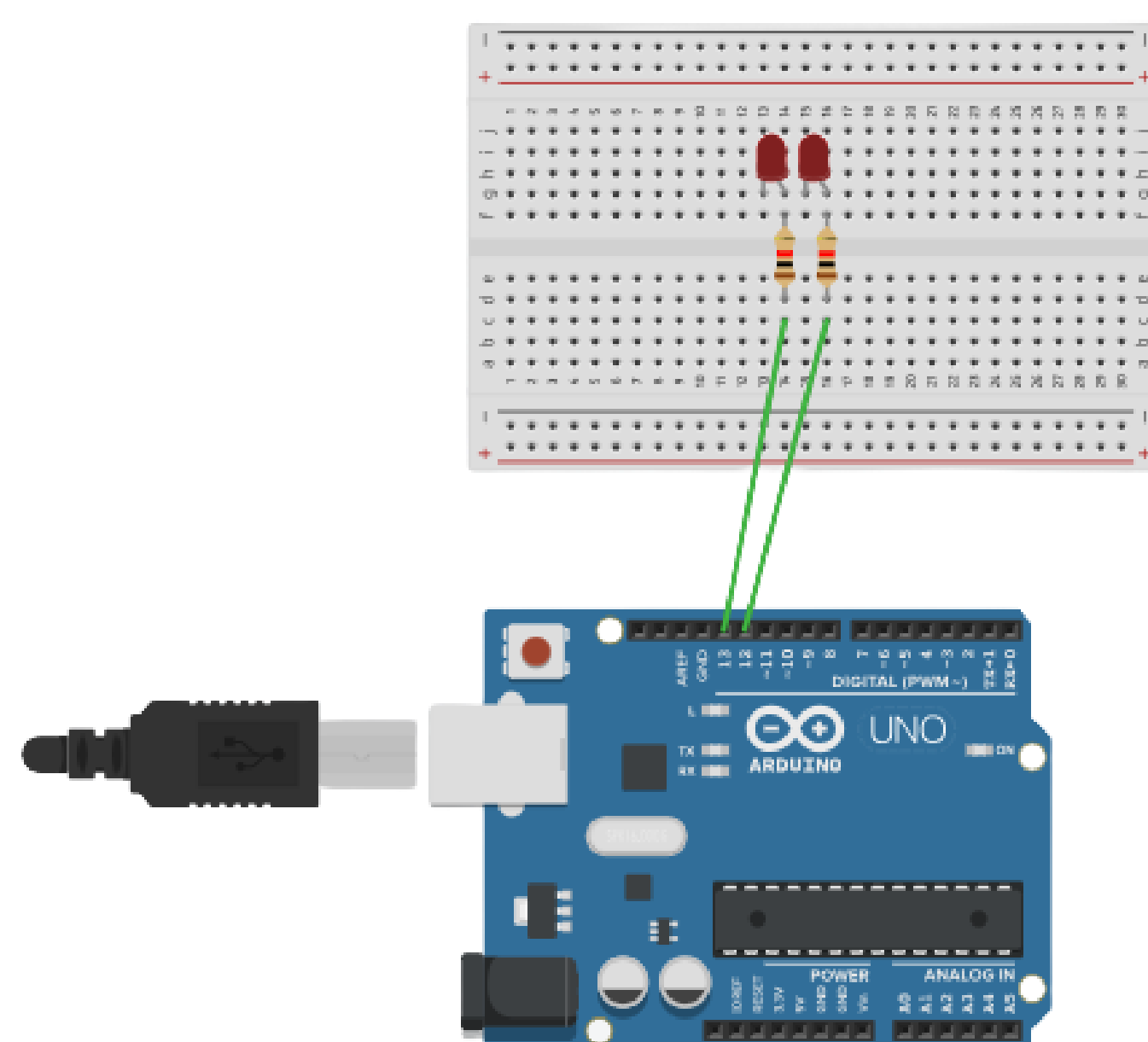
Step 2 Insert LEDs in a straight line with all long legs facing the same direction.



Step 3 Attach one resistor to the long leg (anode) of each LED.

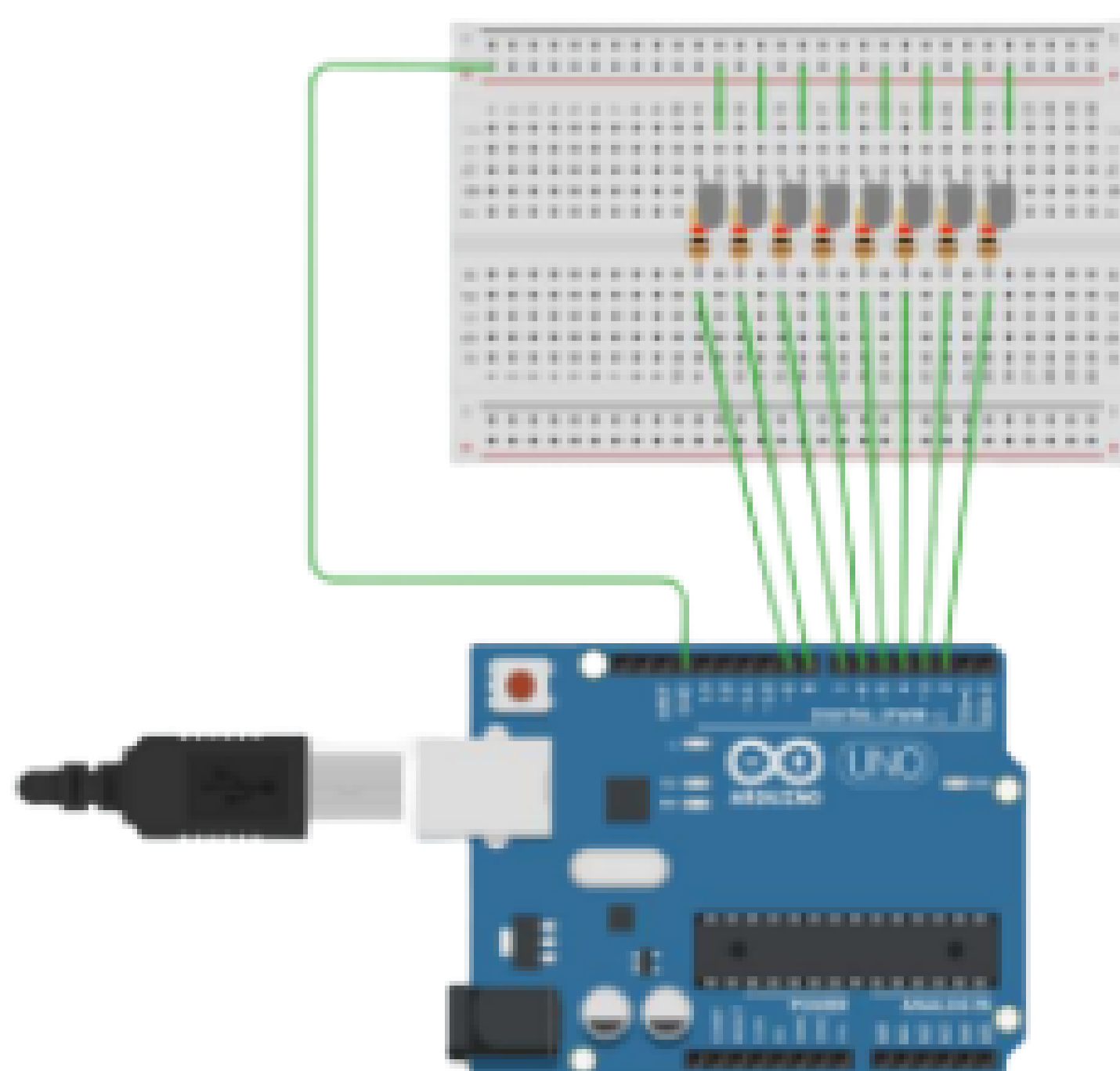


Step 4 Use jumper wires to connect each resistor to different Arduino digital pins.



Step 5 Connect all LED short legs to the breadboard ground rail and link it to Arduino GND.

Step 6 Connect the Arduino using a USB cable, upload the code, and observe the LED chaser effect.



Code

```
1  int ledPins=[2,3,4,5,6,7,8,9];
2  int totalLEDs=8;
3
4  void setup()
5  {
6      for (i=0;i<totalLEDs;i++)
7      {
8          pinMode(ledPins[i], OUTPUT);
9      }
10 }
11 void loop{
12     //Forward Direction
13     for(i=0;i<totalLEDs;i++)
14     {
15         digitalWrite(ledPins[i],HIGH);
16         delay(100);
17         digitalWrite(ledPins[i],LOW);
18     }
19 }
20 //Reverse direction
21 for(i=totalLEDs-1;i>=0;i--)
22 {
23     digitalWrite(ledPins[i],HIGH);
24     delay(100);
25     digitalWrite(ledPins[i],LOW);
26 }
27 }
```