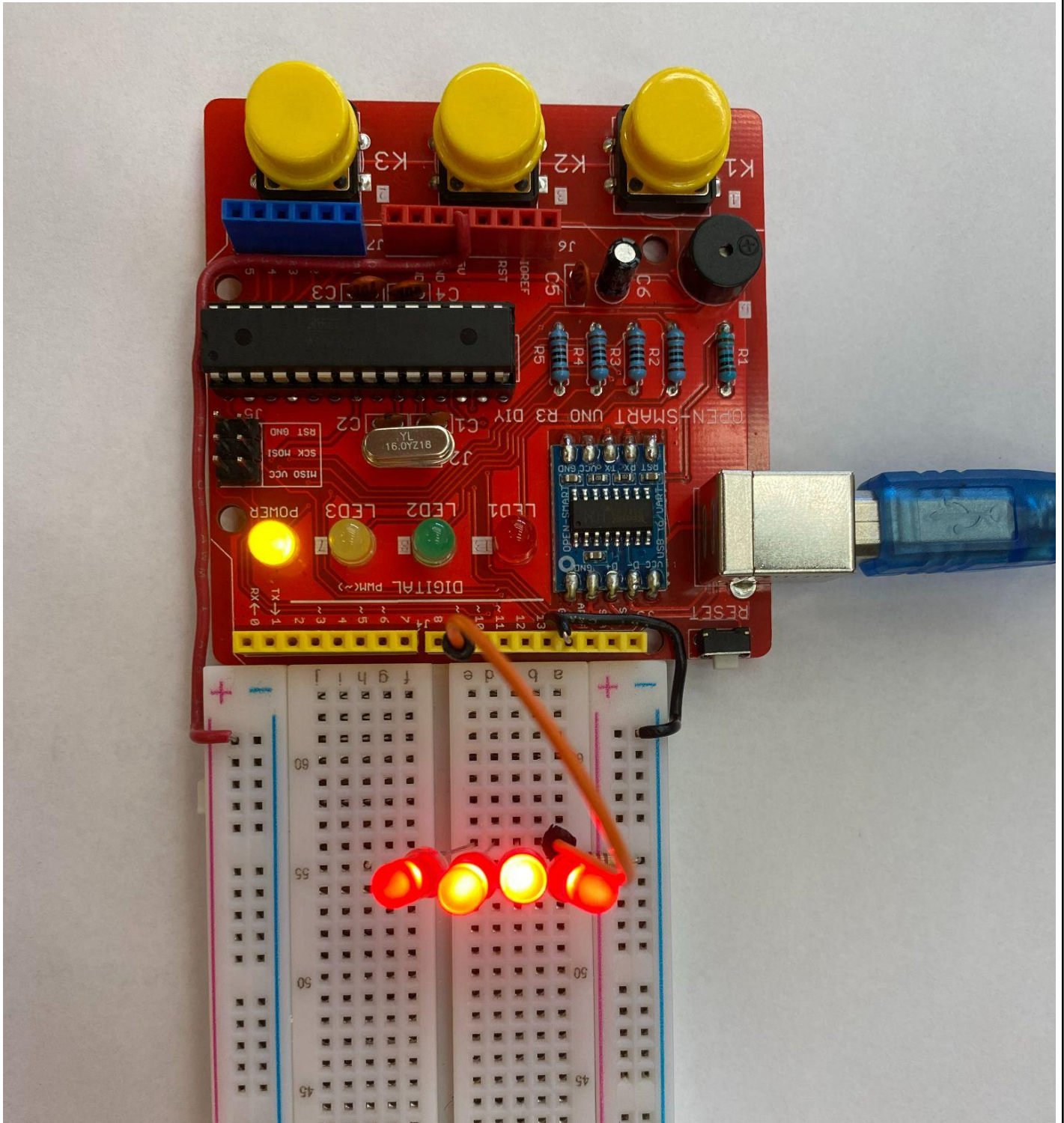


LVL	Criteria
R	
1	
2	
3	
4	<p>"build and wire"[3]</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> circuit is correct, routed cleanly and easy to follow[1½]</li> <li><input type="checkbox"/> all full voltage wire red and all gnd wires black</li> <li><input type="checkbox"/> signal wire colours chosen to allow easier tracing of circuit[½]</li> </ul> <p>tinkerCAD[2]</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> all components mounted on breadboard and do not block view of other components[½]</li> <li><input type="checkbox"/> wires horizontal or vertical only with 90 degree bends[½]</li> <li><input type="checkbox"/> wires do not cross in front or behind other components or component terminals and do not run on top of one another[½]</li> <li><input type="checkbox"/> wires and component do not share the same hole on the breadboard and wires do not cross when possible[½]</li> </ul> <p>in person[2]</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> all wires are solid core, flat to breadboard, horizontal or vertical with 90 degree bends</li> <li><input type="checkbox"/> solid core wires stripped 6-8mm[½]</li> <li><input type="checkbox"/> no bare wire visible [½]</li> </ul> <p>"programming"[3]</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> final "test your understanding" complete and working correctly[1½]</li> <li><input type="checkbox"/> code commenting is accurate and complete (including title)[½]</li> <li><input type="checkbox"/> program structure and spacing is logical and demonstrates organization[½]</li> <li><input type="checkbox"/> code text submission is courier new font and is coloured to allow easier identification of comments[½]</li> </ul> <p>"inspection questions"[1]</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> demonstrates full understanding of circuit and interfacing concepts in conversation with teacher</li> </ul>
4+	<p>"enhancements"[1]</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> minimized number and length of wires and wire crossings[½]</li> <li><input type="checkbox"/> circuit enhancement complete and working correctly[½]</li> </ul>

Build image:



code:

```
/*
Names: Siddarth & Mostafa
Date: April 20, 2022
Description: Code for lab 1

LED blinks on and off repeatedly with a delay period of 1 second
(1000 milliseconds). LED stays on for 1000 milliseconds, turns off for 1000
milliseconds; and repeats.
*/

void setup() //Setup Code (runs once)
{
    pinMode(9, OUTPUT); //Set pin 9 (the LED pin) as an OUTPUT pin
}

void loop() //Loop Code (runs repeatedly)
{
    digitalWrite(9, HIGH); //LED connected to pin 9 turns ON
    delay(1000); //Delays program for 1000 milliseconds
    digitalWrite(9, LOW); //LED connected to pin 9 turns OFF
    delay(1000); //Delays program for 1000 milliseconds
}
```