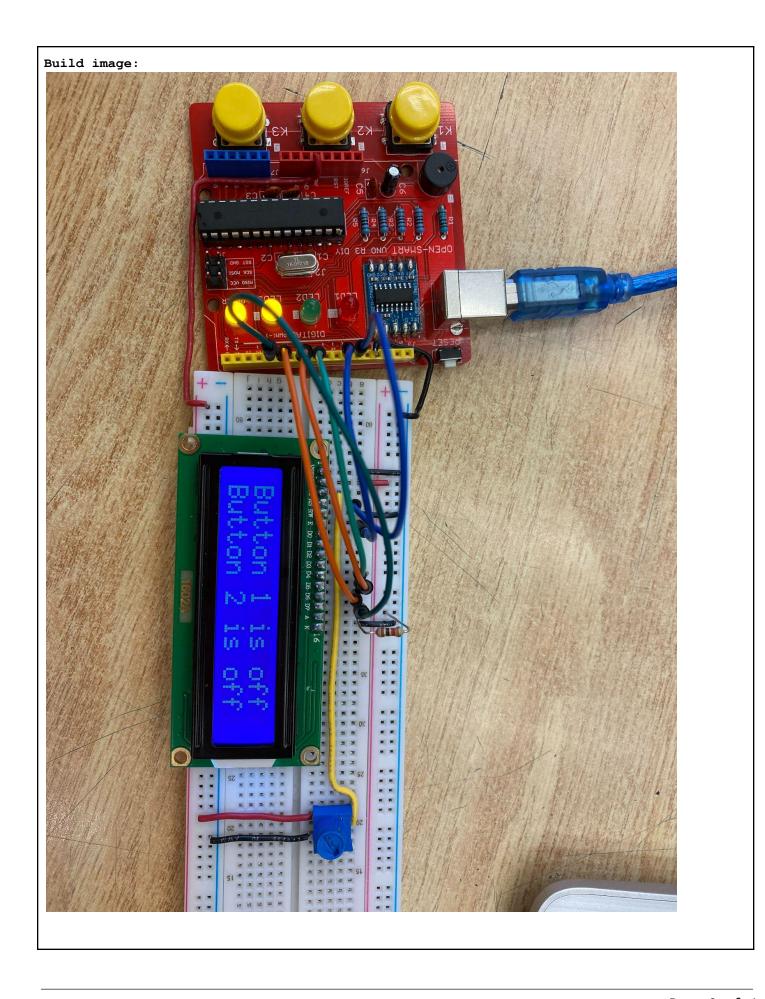
LVL	Criteria
R	
1	
2	
3	
4	"build and wire"[3]
	<pre>□ code commenting is accurate and complete (including title)[½] □ program structure and spacing is logical and demonstrates organization[½] □ code text submission is courier new font and is coloured to allow easier identification of comments[½] "inspection questions"[1]</pre>
	demonstrates full understanding of circuit and interfacing concepts in conversation with teacher
4+	<pre>"enhancements"[1]</pre>



```
code:
Names: Siddarth & Mostafa
Dates: May, 2, 2022
Description: Code for interfacing lab 8 - Pushbuttons
*/
#include <LiquidCrystal.h>
// initialize the library with the numbers of the interface pins
LiquidCrystal lcd(12, 11, 8, 7, 5, 4);
// Declare variables for pins
int pushButton1 = 2;
int pushButton2 = 3;
int state1;
int state2;
void setup() {
 lcd.begin(16, 2); // set up the LCD's number of columns and rows
 lcd.clear();
 lcd.setCursor(0, 0);
 //set push buttons as INPUT PULLUP
 pinMode(pushButton1, INPUT PULLUP);
 pinMode(pushButton2, INPUT PULLUP);
void loop() {
 state1 = digitalRead(pushButton1); //read the state of pushbutton 1
 state2 = digitalRead(pushButton2); //read the state of pushbutton 1
 lcd.clear();
 //Both buttons pressed
 if (!state1 && !state2)
    lcd.setCursor(0,0);
```

```
lcd.print("Both are on!!!");
  lcd.setCursor(0,1);
//Only pushbutton 1 is pressed
else if (!state1)
  lcd.setCursor(0,0);
 lcd.print("Button 1 is on");
 lcd.setCursor(0,1);
 lcd.print("Button 2 is off");
//Only pushbutton 2 is pressed
else if (!state2)
 lcd.setCursor(0,0);
 lcd.print("Button 1 is off");
 lcd.setCursor(0,1);
 lcd.print("Button 2 is on");
//Neither of the buttons are pressed
else
 lcd.setCursor(0,0);
 lcd.print("Button 1 is off");
 lcd.setCursor(0,1);
 lcd.print("Button 2 is off");
delay(100); //Delay to allow screen to update
```