

~\OneDrive - Florida State University\FA25\Mech2\Lab1\Lab1.ino

```
1 #include <LiquidCrystal_I2C.h>
2 LiquidCrystal_I2C lcd(0x27, 16, 2);
3
4 int potval;
5 int Switch2 = 0;
6 int Switch3 = 0;
7 int Switch4 = 0;
8 int Switch5 = 0;
9
10 void setup() {
11     // put your setup code here, to run once:
12     DDRA = 0;
13     PORTA = 0xff;
14
15     DDRB = 0xFF;
16     PORTB = 0;
17     lcd.init();
18     lcd.backlight();
19     Serial.begin(9600);
20 }
21
22 void loop() {
23     // put your main code here, to run repeatedly:
24     Switch2 = !(PINA & 0b1);
25     Switch3 = !((PINA & 0b10) >> 1);
26     Switch4 = !((PINA & 0b100) >> 2);
27     Switch5 = !((PINA & 0b1000) >> 3);
28     Serial.println(PINA & 0b10);
29     potval = analogRead(A0);
30
31     if (Switch2) {
32         lcd.clear();
33         PORTB = 1;
34     }
35
36     else if (!Switch2)
37         PORTB = 0;
38
39     if (Switch3) {
40         lcd.clear();
41         PORTB = 1;
42         delay(500);
43         PORTB = 0;
44     }
45
46     if (Switch4) {
47         lcd.clear();
48         lcd.print("Jack Vranicar");
```

```
49     }  
50  
51     if (Switch5) {  
52         lcd.clear();  
53         lcd.print(potval);  
54     }  
55 }  
56
```