## timerTiny.ino -- Printed on 1/26/2018, 11:53:06 PM -- Page 1

```
1 /**
 2
      Chemical Timer Action - Mission Possible MK2
 3
      Ward Melville HS Science Olympiad - Team A - 2017-2018
 4
      expTiny.ino
 5
      Purpose: Turns on a motor when the input is recieved. Turns it off when a switch is hit.
 6
 7
      @author David Cutting
 8
      @version 1.1 1/26/2018
 9
10
11 // Definitions for microcontroller pin numbers
12 const int MOT_PIN_A = 0;
13 const int MOT_PIN_B = 1;
14 const int SWITCH_PIN = 2;
15 const int IN_PIN = 3;
16
17
    void setup() {
18
     // Set the microcontroller pins as either inputs or outputs
     pinMode(SWITCH_PIN, INPUT);
19
20
     pinMode(IN_PIN, INPUT);
21
     pinMode(MOT_PIN_A, OUTPUT);
     pinMode(MOT_PIN_B, OUTPUT);
22
23
24
     // Lock the motor in place (connect the leads, essentially)
25
     digitalWrite(MOT_PIN_A, LOW);
26
     digitalWrite(MOT_PIN_B, LOW);
27
    }
28
29
    void loop() {
30
    if(digitalRead(SWITCH_PIN)) { // If the limit switch is pressed...
       // Turn the motor off (coast)
31
32
       digitalWrite(MOT_PIN_A, LOW);
33
       digitalWrite(MOT_PIN_B, LOW);
34
35
     else if(digitalRead(IN_PIN)) {
36
       digitalWrite(MOT_PIN_A, LOW);
37
       digitalWrite(MOT_PIN_B, HIGH);
38
     }
39
    }
40
```