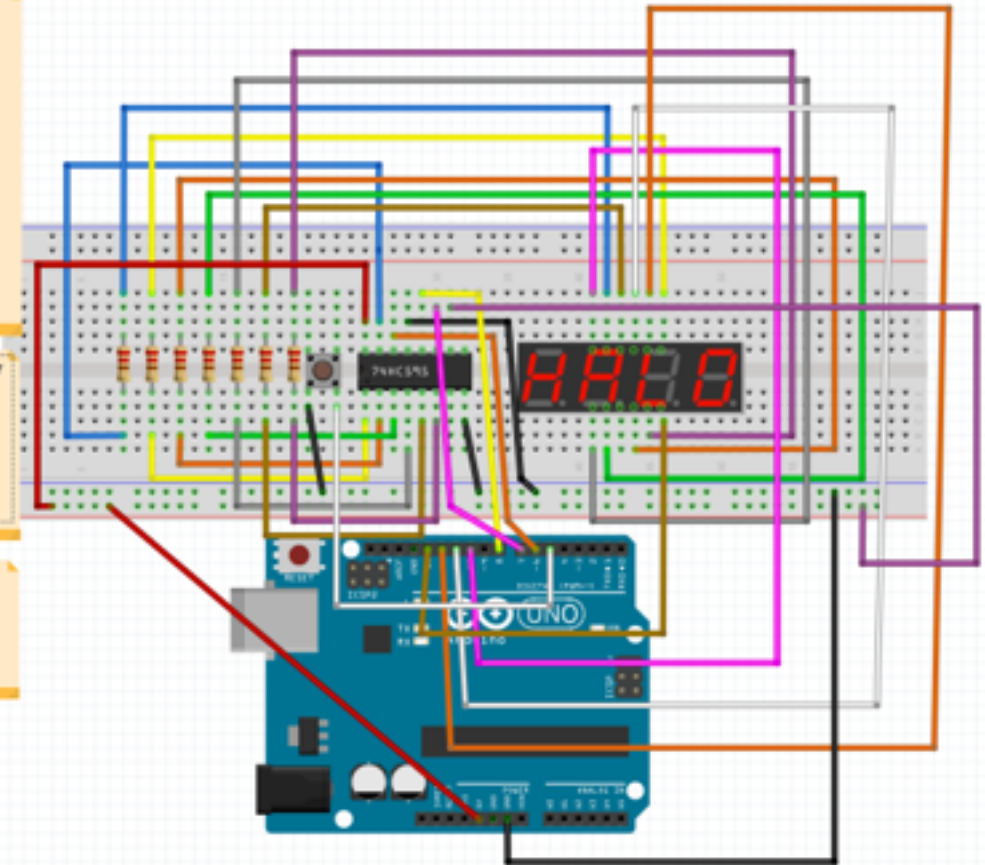




Shift Register Pin	7-Segment Pin	Arduino Connection
1	7	
2	4	
3	2	
4	1	
5	10	
6	5	
7		Unconnected
8		GND
9		Unconnected
10		5v
11		7
12		8
13		GND
14		6
15		
16	11	5V

Shift Register Pin	7-Segment Pin	7-Segment Letter
15	11	A
1	7	B
2	4	C
3	2	D
4	1	E
5	10	F
6	5	G

Arduino Pin	7-Segment Pin	Controls Digit
10	12	Digit 1
11	9	Digit 2
12	8	Digit 3
13	6	Digit 4



Arduino Bootcamp : Learning Through Projects

Stopwatch - Completing the Project - Part 3

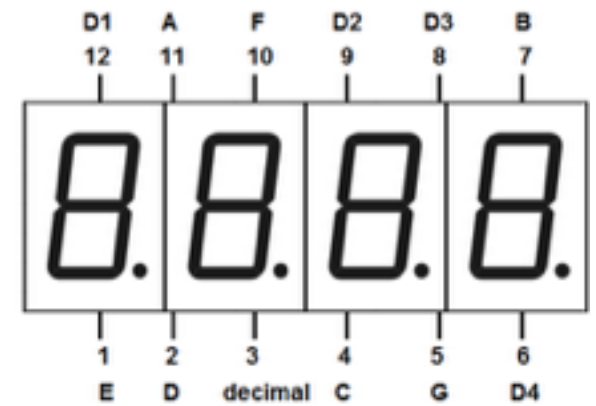
Project Objectives

- In this project you will learn:
 - How to use the stopwatch third party library
 - Create a functioning stopwatch

Parts

- Arduino Uno
- USB A-B cable
- Breadboard
- 4 Digit Seven Segment Display (Common Anode)
- 8-Bit Shift Register (SN74HC595)
- 7 × 220 ohm resistors
- Push button switch
- Connecting wires

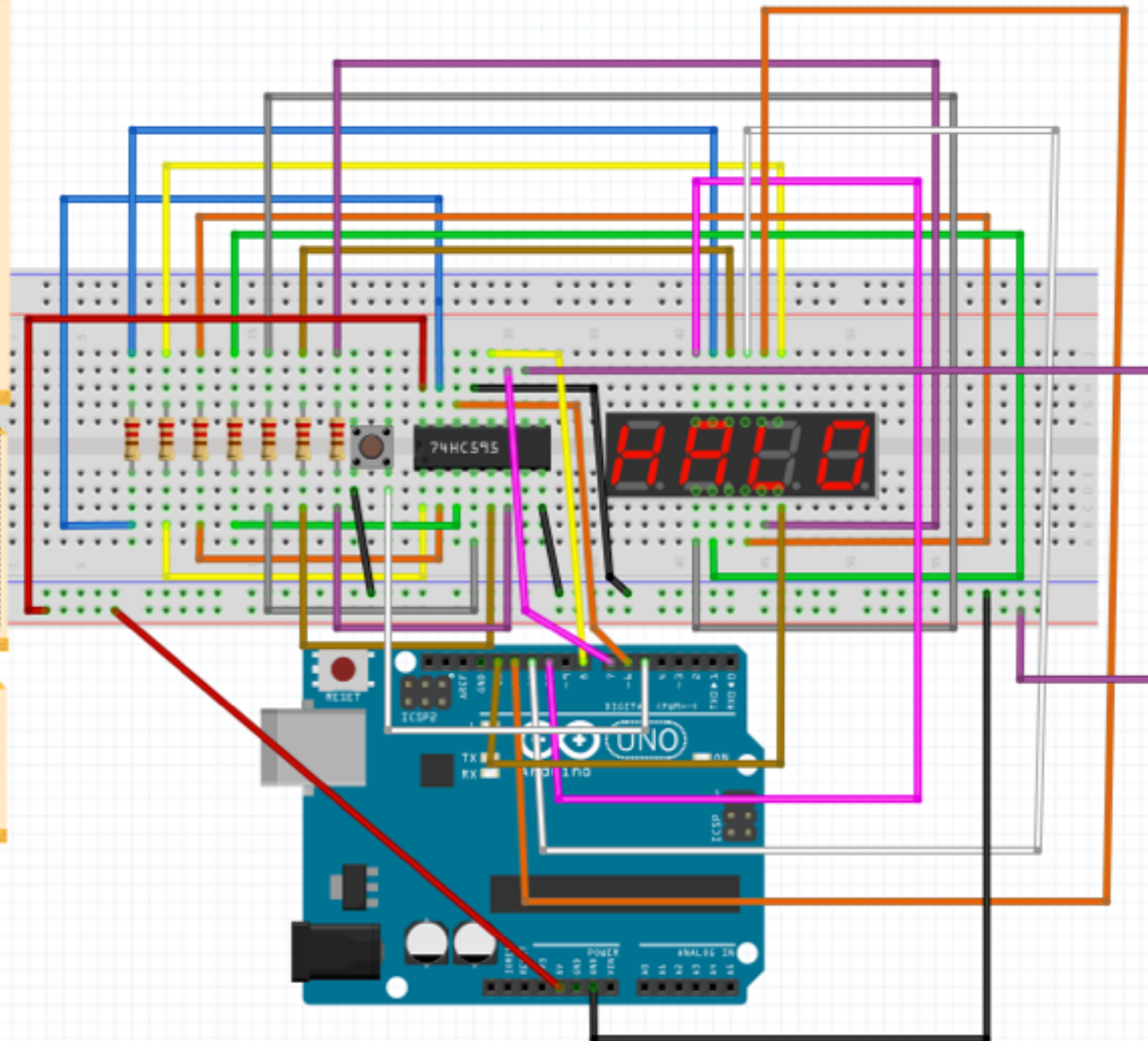
Circuit Diagram



Shift Register Pin	7-Segment Pin	Arduino Connection
1	7	
2	4	
3	2	
4	1	
5	10	
6	5	
7		Unconnected
8		GND
9		Unconnected
10		5V
11		7
12		8
13		GND
14		6
15	11	
16		5V

Shift Register Pin	7-Segment Pin	7-Segment Letter
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5	10	F
6	5	G

Arduino Pin	7-Segment Pin	Controls Digit
10	12	Digit 1
11	9	Digit 2
12	8	Digit 3
13	6	Digit 4



Summary

- In this project you learnt:
 - About the stopwatch library
 - How to create a stopwatch with a switch and a shift register with a 4 digit seven segment display