Arduino Bootcamp : Learning Through Projects

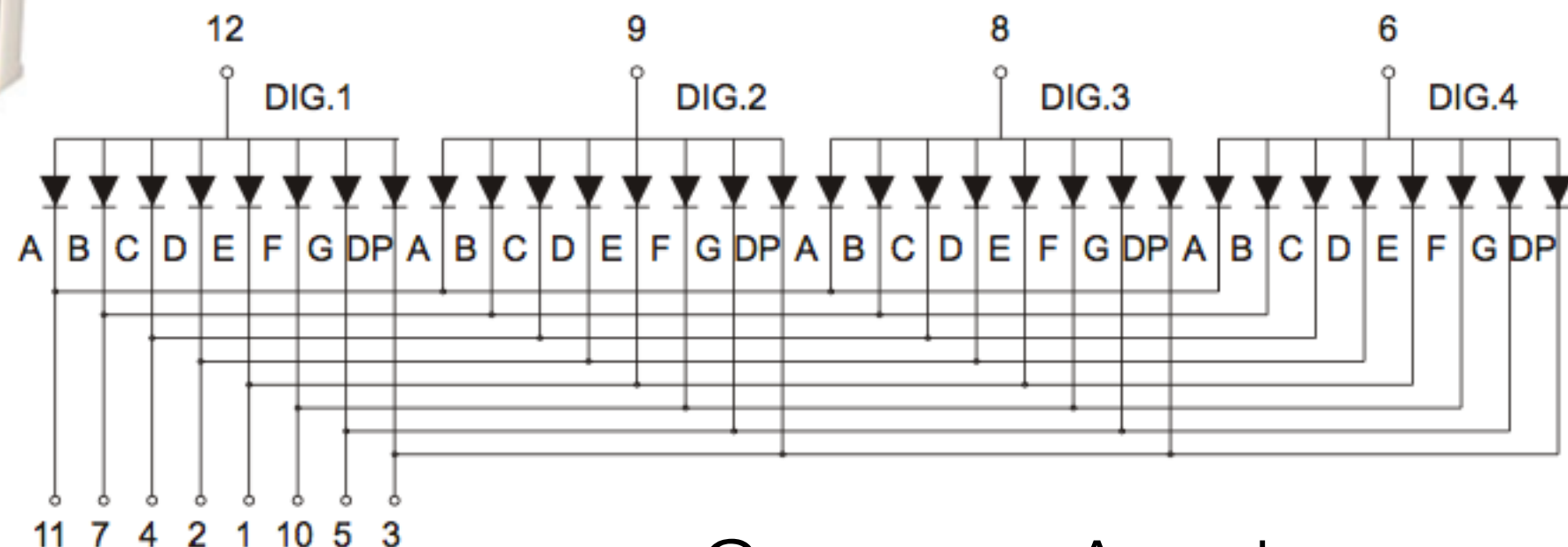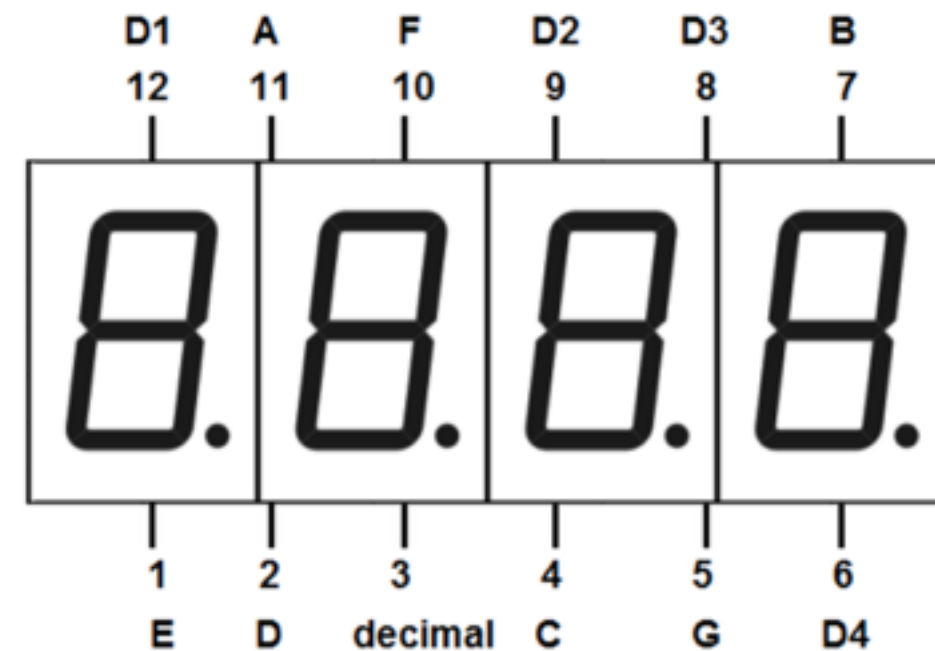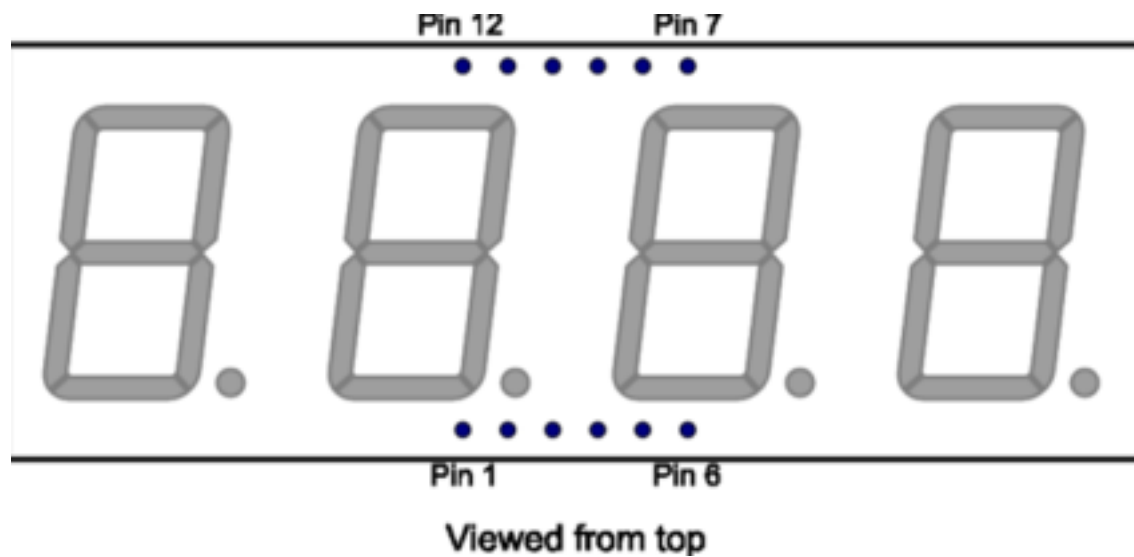Stopwatch - Controlling a 4 Digit Segment Display - Part 1

Project Objectives

- In this project you will learn:

  - How to connect a 4 digit seven segment display in a circuit

  - Controlling the 4 digit segment display in code

Parts

- Arduino Uno

- USB A-B cable

- Breadboard

- 4 Digit Seven Segment Display (Common Anode)

- 7 x 220 ohm resistors

- Connecting wires

4 Digit Seven Segment Display

Pin 12   Pin 7
Pin 1   Pin 6
Viewed from top

D1	A	F	D2	D3	B
12	11	10	9	8	7

1	2	3	4	5	6
E	D	decimal	C	G	D4

12   DIG.1   9   DIG.2   8   DIG.3   6   DIG.4

A B C D E F G DP   A B C D E F G DP   A B C D E F G DP   A B C D E F G DP

11 7 4 2 1 10 5 3

Common Anode

Circuit Diagram

Arduino Pin	7-Segment Pin	7-Segment Letter
2	11	A
3	7	B
4	4	C
5	2	D
6	1	E
7	10	F
8	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

D1	A	F	D2	D3	B
12	11	10	9	8	7

1	2	3	4	5	6
E	D	decimal	C	G	D4
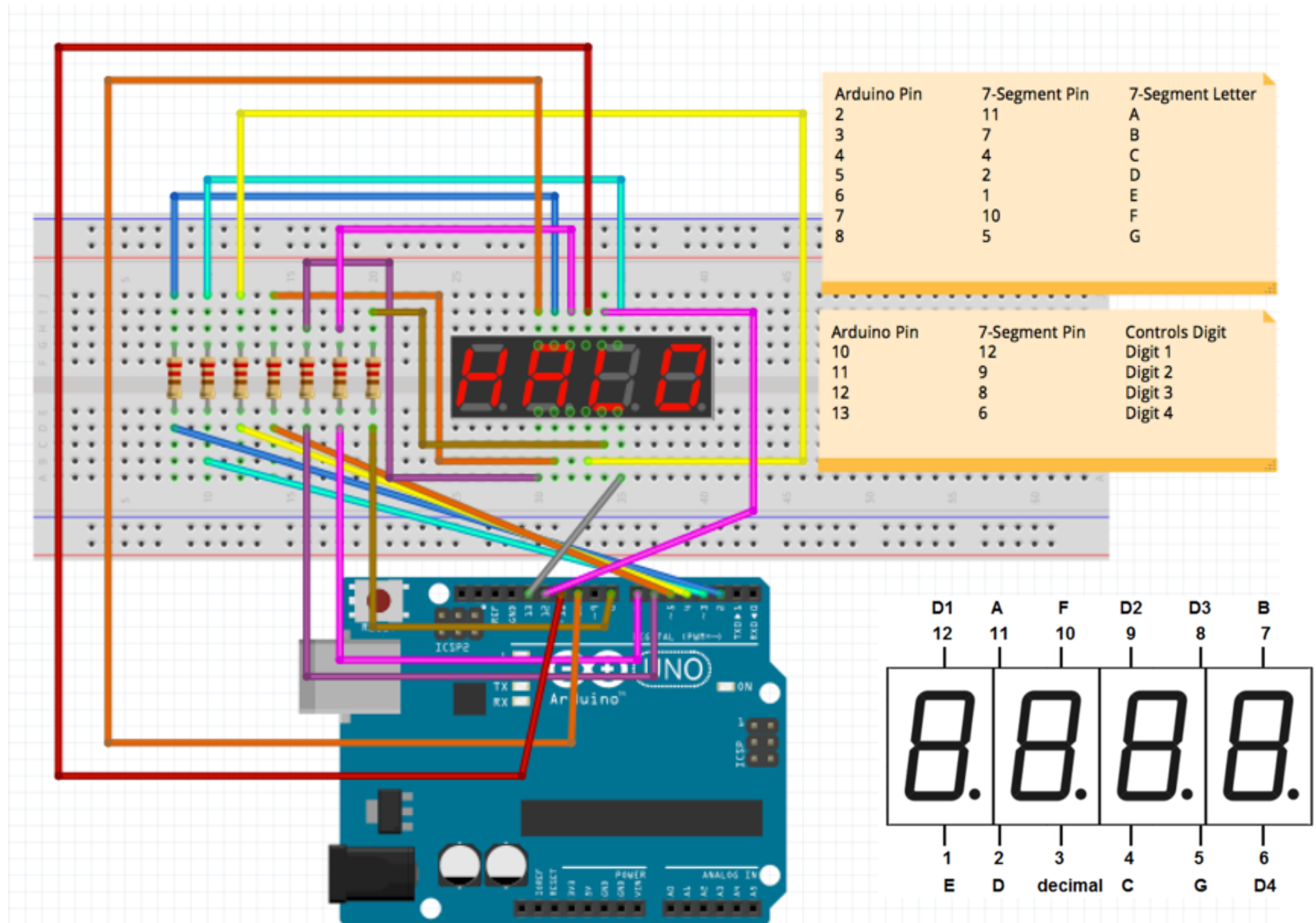
Summary

- In this project you learnt:

  - How to connect a 4 digit seven segment display

  - How to write to the display in code