

Name and Student ID: \_\_\_\_\_ Lab Section: \_\_

Date: \_\_\_\_\_

**PRELAB:**

**Q1. The following symbols are normally used to display digits 0-F. Modify them when segment E, (lower left) is stuck at OFF.**

Z	Y	X	W	Display
0	0	0	0	0
0	0	0	1	1
0	0	1	0	2
0	0	1	1	3
0	1	0	0	4
0	1	0	1	5
0	1	1	0	6
0	1	1	1	7

Z	Y	X	W	Display
1	0	0	0	8
1	0	0	1	9
1	0	1	0	A
1	0	1	1	B
1	1	0	0	C
1	1	0	1	D
1	1	1	0	E
1	1	1	1	F

**Q2.** The following symbols are normally used to display digits 0-F. Modify them when segment E, (lower left) is stuck at ON.

Z	Y	X	W	Display
0	0	0	0	0
0	0	0	1	1
0	0	1	0	2
0	0	1	1	3
0	1	0	0	4
0	1	0	1	5
0	1	1	0	6
0	1	1	1	7

Z	Y	X	W	Display
1	0	0	0	8
1	0	0	1	9
1	0	1	0	A
1	0	1	1	B
1	1	0	0	C
1	1	0	1	D
1	1	1	0	E
1	1	1	1	F

**Q3. Fill the following table for your symbols for Q1.**

Z	Y	X	W	A	B	C	D	E	F	G
0	0	0	0							
0	0	0	1							
0	0	1	0							
0	0	1	1							
0	1	0	0							
0	1	0	1							
0	1	1	0							
0	1	1	1							
1	0	0	0							
1	0	0	1							
1	0	1	0							
1	0	1	1							
1	1	0	0							
1	1	0	1							
1	1	1	0							
1	1	1	1							

**Q4. Fill the following table for your symbols for Q2.**

Z	Y	X	W	A	B	C	D	E	F	G
0	0	0	0							
0	0	0	1							
0	0	1	0							
0	0	1	1							
0	1	0	0							
0	1	0	1							
0	1	1	0							
0	1	1	1							
1	0	0	0							
1	0	0	1							
1	0	1	0							
1	0	1	1							
1	1	0	0							
1	1	0	1							
1	1	1	0							
1	1	1	1							

Demonstration Results: \_\_\_\_\_