ECS417U Lab Sheet
Topic 6 - JavaScript Basics

For these exercises, you will be expected to create a series of HTML5 documents that include JavaScript scripts.

Exercise 1

Add integers from 1 to 1000 and output the result in an alert() dialog window and on the webpage.

Exercise 2

Input five numbers using prompt(), then output the largest of these numbers in alert() dialog window.
Hint: you will need to create an array and call the function math.max()

Exercise 3

Ask the user to input his/her first name using prompt(). Output either "legal name" or "illegal name" depending on whether the input name has more than 15 characters.

Exercise 4

Write and test a JavaScript function which takes an array of numbers as an argument and returns the average and median for the elements within the array.

Exercise 5

Create the multiplication table shown in figure 1 using JavaScript. You will need to use HTML5 elements such as `<caption>` , `<thead>` and `<tfoot>`. In addition to this, you will also need to create an external css file for styling the table.
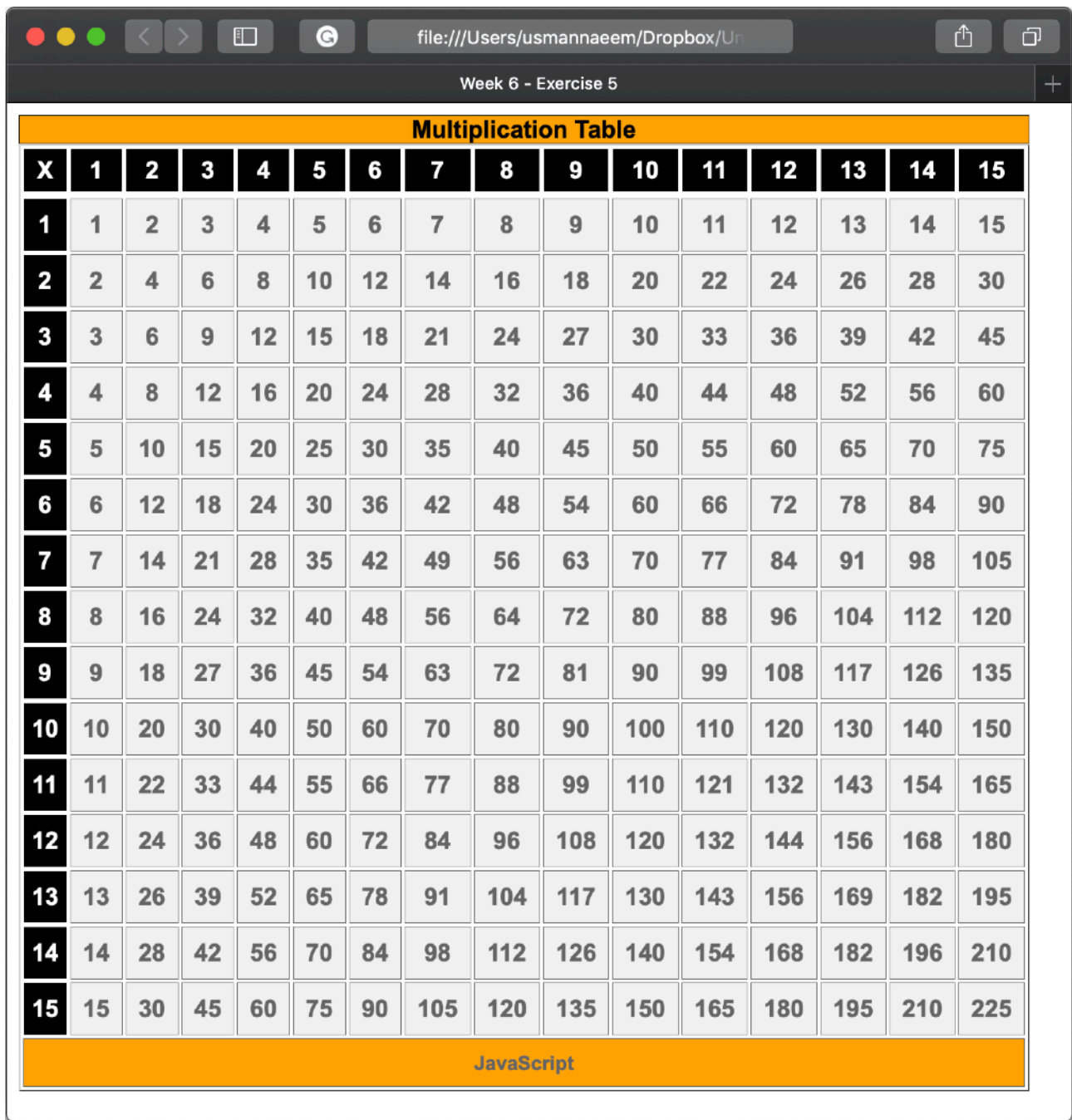
Multiplication Table

X	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
2	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30
3	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45
4	4	8	12	16	20	24	28	32	36	40	44	48	52	56	60
5	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75
6	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90
7	7	14	21	28	35	42	49	56	63	70	77	84	91	98	105
8	8	16	24	32	40	48	56	64	72	80	88	96	104	112	120
9	9	18	27	36	45	54	63	72	81	90	99	108	117	126	135
10	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
11	11	22	33	44	55	66	77	88	99	110	121	132	143	154	165
12	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180
13	13	26	39	52	65	78	91	104	117	130	143	156	169	182	195
14	14	28	42	56	70	84	98	112	126	140	154	168	182	196	210
15	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225

JavaScript

FIGURE 1