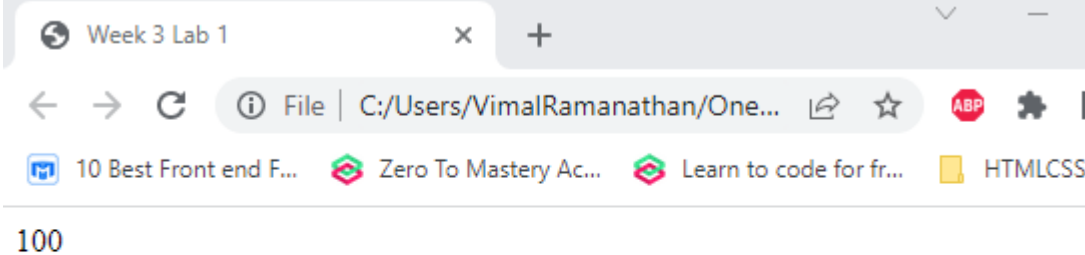


Exercise: 1







A) Variables











1. Numerical Data

Code	
<pre><> variables.html x</pre>	
<pre>1 > <> variables.html > html > head > script</pre>	
<pre>1 <!DOCTYPE html></pre>	
<pre>2 <html lang="en"></pre>	
<pre>3 <head></pre>	
<pre>4 <meta charset="UTF-8"></pre>	
<pre>5 <meta http-equiv="X-UA-Compatible" content="IE=edge"></pre>	
<pre>6 <meta name="viewport" content="width=device-width, initial-scale=1.0"></pre>	
<pre>7 <title>Week 3 Lab 1</title></pre>	
<pre>8 <script></pre>	
<pre>9 var x = 100;</pre>	
<pre>10 document.write(x);</pre>	
<pre>11 </script></pre>	
<pre>12 </head></pre>	
<pre>13 <body></pre>	
<pre>14</pre>	
<pre>15 </body></pre>	
<pre>16 </html></pre>	

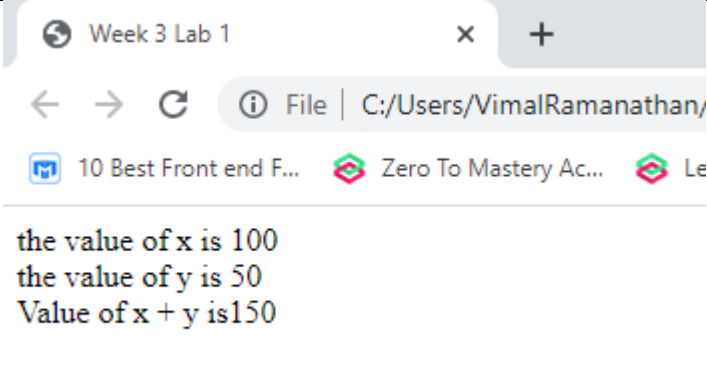
Results	
	

2. String Data & The Concatenation Operator

Code	
 variables.html	
1 >  variables.html >  html >  head >  script	
<pre>1 <!DOCTYPE html> 2 <html lang="en"> 3 <head> 4 <meta charset="UTF-8"> 5 <meta http-equiv="X-UA-Compatible" content="IE=edge"> 6 <meta name="viewport" content="width=device-width, initial-scale=1.0"> 7 <title>Week 3 Lab 1</title> 8 <script> 9 var x = 100; 10 var text = "Value of x is"; 11 document.write(text + " " + x); 12 </script> 13 </head> 14 <body> 15 16 </body> 17 </html></pre>	

Results	
 Week 3 Lab 1  	
    File C:/Users/VimalRamanath	
 10 Best Front end F...  Zero To Mastery Ac... 	
Value of x is 100	

3. Operations on Data

Code
<pre><> variables.html x 1 > <> variables.html > html > body 1 <!DOCTYPE html> 2 <html lang="en"> 3 <head> 4 <meta charset="UTF-8"> 5 <meta http-equiv="X-UA-Compatible" content="IE=edge"> 6 <meta name="viewport" content="width=device-width, initial-scale=1.0"> 7 <title>Week 3 Lab 1</title> 8 <script> 9 var x = 100; 10 var y = 50; 11 var text = "Value of x + y is"; 12 document.write("the value of x is "+" " + x + "
"); 13 document.write("the value of y is "+" " + y + "
"); 14 document.write(text+" "+(x+y)); 15 </script> 16 </head> 17 <body> 18 19 </body> 20 </html></pre>
Results


B) Input – Processing – Output

1. Buttons Using Inline JavaScript

Code

variables.html

io.html

1 > <> io.html > html > body > input#myButton

1

<!DOCTYPE html>

2

<html lang="en">

3

<head>

4

<meta charset="UTF-8">

5

<meta http-equiv="X-UA-Compatible" content="IE=edge">

6

<meta name="viewport" content="width=device-width, initial-scale=1.0">

7

<title>Document</title>

8

</head>

9

<body>

10

<input type="button" id="myButton" value="Hi there!" onclick="document.write('Hello!');">

11

</body>

12

</html>

Results

Document

x

+

<

>

↺

i

127.0.0.1:5500/io.html

Hi there!

127.0.0.1:5500/io.html

x

+

<

>

↺

i

127.0.0.1:5500/io.html

Hello!

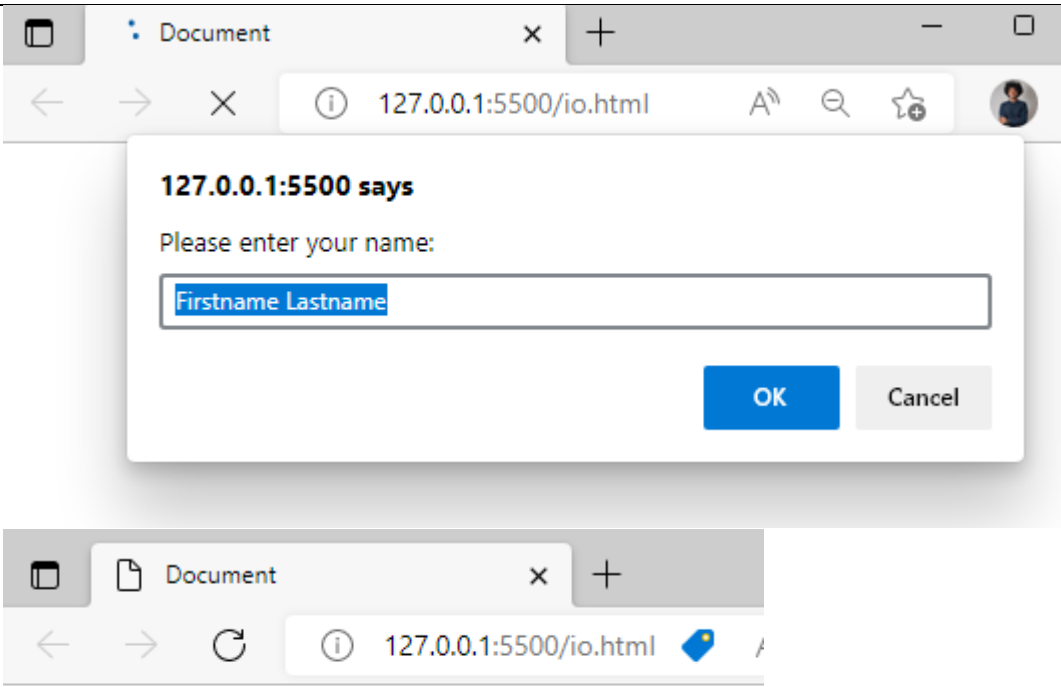
Exercise: 1

2. Prompts

Code

```
1 > <> io.html > html
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4      <meta charset="UTF-8">
5      <meta http-equiv="X-UA-Compatible" content="IE=edge">
6      <meta name="viewport" content="width=device-width, initial-scale=1.0">
7      <title>Document</title>
8      <script>
9          var name = prompt("Please enter your name:", "Firstname Lastname");
10         var greeting = "Hello," + name;
11         document.write(greeting);
12     </script>
13 </head>
14 <body>
15
16 </body>
17 </html>
```

Results



The screenshot shows a web browser window with a single tab titled 'Document'. The address bar displays '127.0.0.1:5500/io.html'. A modal dialog box is open, titled '127.0.0.1:5500 says', with the text 'Please enter your name:'. The input field contains 'Firstname Lastname'. Below the input field are 'OK' and 'Cancel' buttons. Below the dialog, the browser's content area shows the text 'Hello,Vimal Ramanathan'.

Exercise: 1

3. Calculating Values with Prompts

Code

variables.html io.html x

1 > <> io.html > html > head > script > result

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta http-equiv="X-UA-Compatible" content="IE=edge">
6   <meta name="viewport" content="width=device-width, initial-scale=1.0">
7   <title>Document</title>
8   <script>
9     var x = prompt("First Value:", "Enter a number");
10    var y = prompt("Second value:", "Enter another number");
11    var result = parseInt(x) + parseInt(y);
12    document.write(result);
13  </script>
14 </head>
15 <body>
16
17 </body>
18 </html>
```

Results



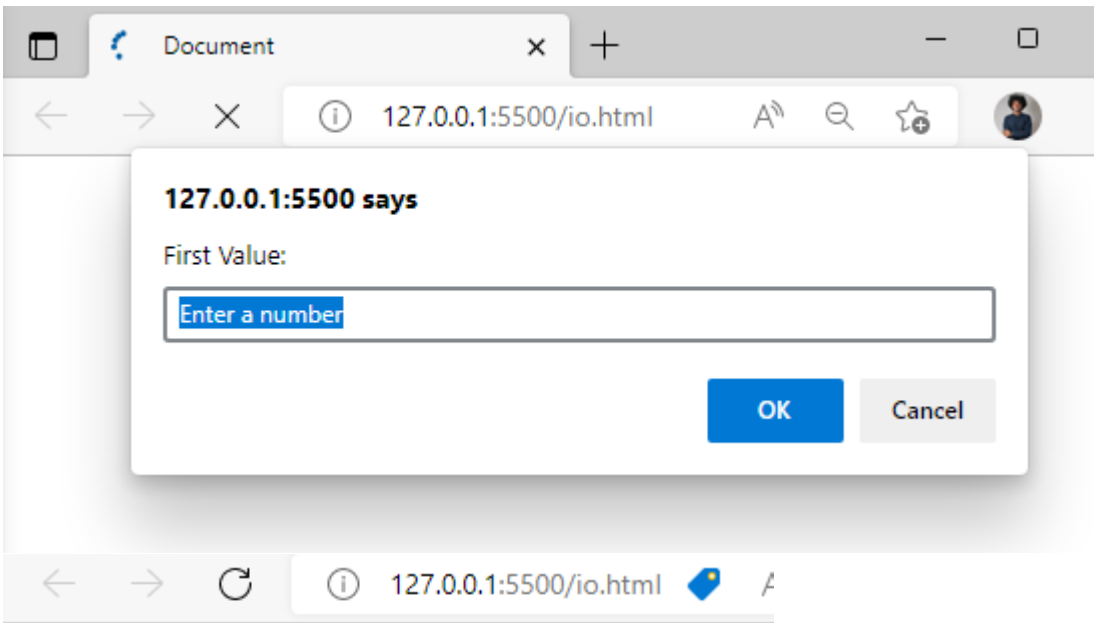
The screenshot shows a web browser window with the address bar displaying "127.0.0.1:5500/io.html". A prompt dialog box is open, titled "127.0.0.1:5500 says", with the text "First Value:" and a text input field containing "Enter a number". The dialog has "OK" and "Cancel" buttons.

10

Code

```
<> variables.html <> io.html x
1 > <> io.html > html > head > script > result
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4      <meta charset="UTF-8">
5      <meta http-equiv="X-UA-Compatible" content="IE=edge">
6      <meta name="viewport" content="width=device-width, initial-scale=1.0">
7      <title>Document</title>
8      <script>
9          var x = prompt("First Value:", "Enter a number");
10         var y = prompt("Second value:", "Enter another number");
11         var result = parseInt(x) + parseInt(y);
12         document.write(result);
13     </script>
14 </head>
15 <body>
16
17 </body>
18 </html>
```

Results



The screenshot shows a web browser window with the address bar displaying "127.0.0.1:5500/io.html". A prompt dialog box is open, titled "127.0.0.1:5500 says", with the text "First Value:" and a text input field containing "Enter a number". The dialog has "OK" and "Cancel" buttons.

10

C) Functions

1. Alert() funtion

Code

variables.html

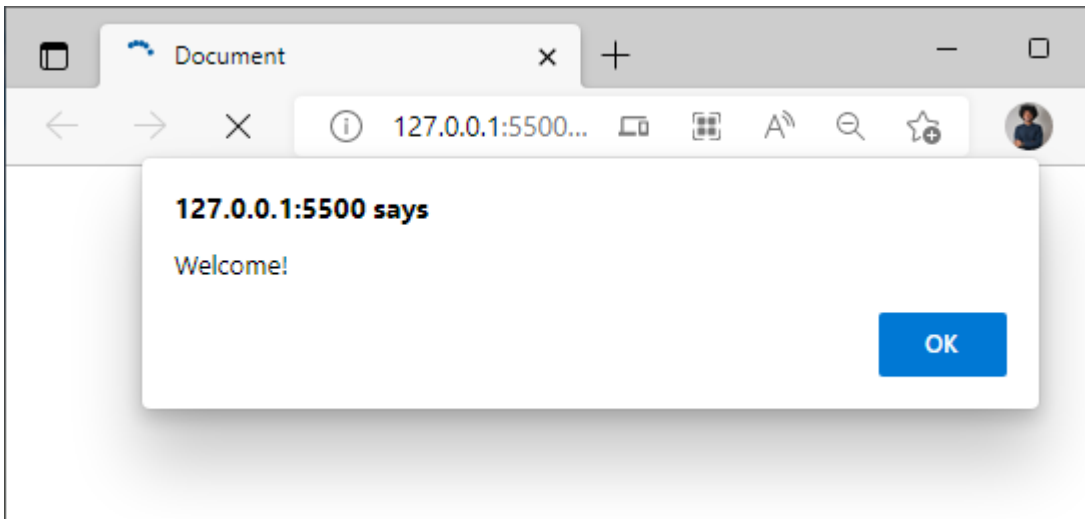
io.html

functions.html

1 > <> functions.html > html > head > script

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta http-equiv="X-UA-Compatible" content="IE=edge">
6   <meta name="viewport" content="width=device-width, initial-scale=1.0">
7   <title>Document</title>
8   <script>
9     alert("Welcome!");
10  </script>
11 </head>
12 <body>
13
14 </body>
15 </html>
```

Results

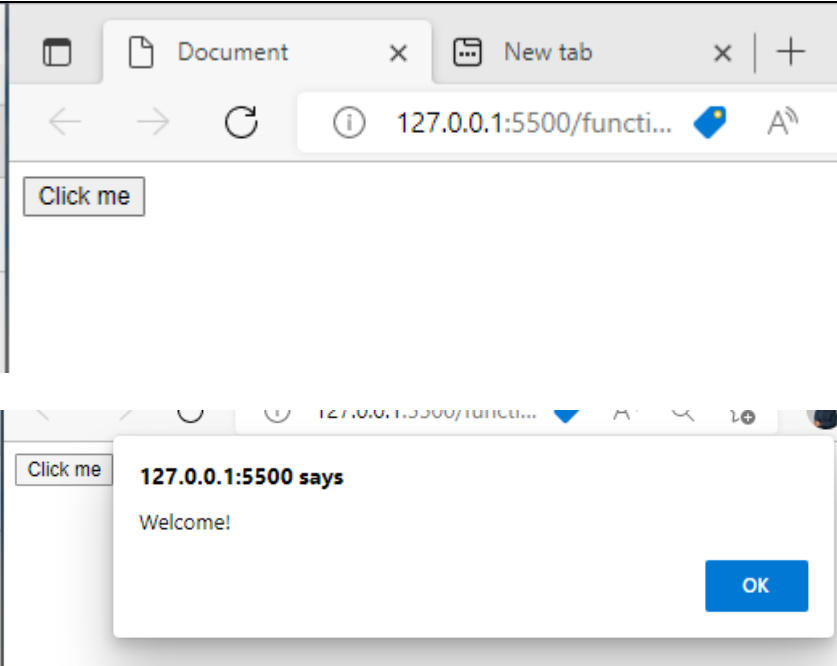


2. Creating a welcome() function

Code

```
1 > <> functions.html > html
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta http-equiv="X-UA-Compatible" content="IE=edge">
6   <meta name="viewport" content="width=device-width, initial-scale=1.0">
7   <title>Document</title>
8   <script>
9     function welcome(){
10       alert("Welcome!");
11     }
12   </script>
13 </head>
14 <body>
15   <input type = "button" id="myButton" value="Click me" onclick="welcome();">
16 </body>
17 </html>
```

Results



The screenshot shows a web browser window with a single tab titled 'Document'. The address bar displays '127.0.0.1:5500/funciti...'. The main content area contains a button labeled 'Click me'. An alert dialog box is open in the foreground, displaying the text '127.0.0.1:5500 says' in bold, followed by 'Welcome!' on the next line. The dialog has an 'OK' button in the bottom right corner.

3. Calculating values with prompts and buttons

Code

variables.html io.html functions.html X Settings

1 > <> functions.html > html > head > script > enterNumbers

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta http-equiv="X-UA-Compatible" content="IE=edge">
6   <meta name="viewport" content="width=device-width, initial-scale=1.0">
7   <title>Document</title>
8   <script>
9     var x = 0;
10    var y = 0;
11    function enterNumbers(){
12      x = prompt("First number", "1,2,3...");
13      y = prompt("Second number", "1,2,3...");
14    }
15
16    function calculate(){
17      var result = parseInt(x) + parseInt(y);
18      document.write(result);
19    }
20  </script>
21 </head>
22 <body>
23   <input type="button" id="button1" value="Enter numbers" onclick="enterNumbers();">
24   <input type="button" id="button2" value="Calculate" onclick="calculate();">
25 </body>
26 </html>
```

Results

Document X +

← → ↺ ⓘ 127.0.0.1:5500/funciti... 🏠

Enter numbers Calculate

127.0.0.1:5500 says

First number

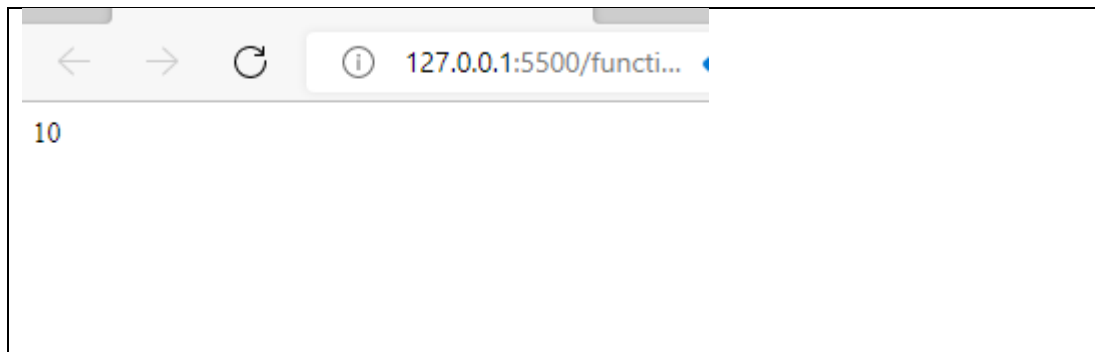
5|

OK Cancel

Name: Vimal Ramanathan

Language: JavaScript

Exercise: 1



Exercise: 1

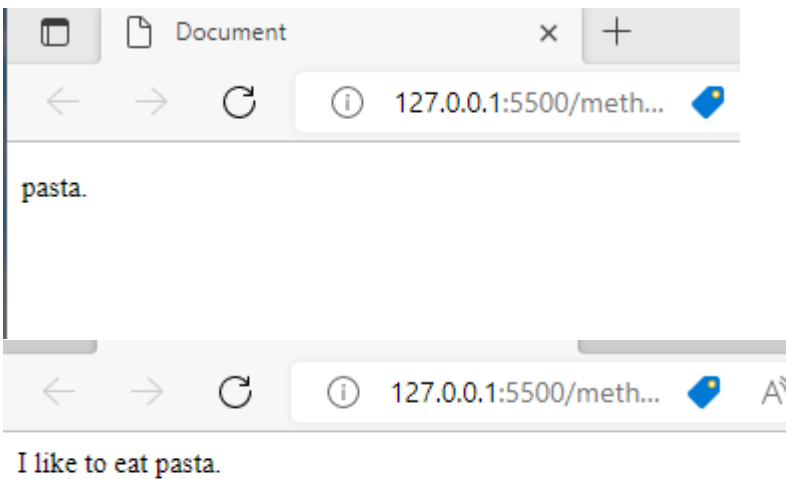
D) Methods

1. Get element by ID

Code

```
1 > <> methods.html > html > head > script > getValue
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4      <meta charset="UTF-8">
5      <meta http-equiv="X-UA-Compatible" content="IE=edge">
6      <meta name="viewport" content="width=device-width, initial-scale=1.0">
7      <title>Document</title>
8      <script>
9          function getValue(){
10             var titlename = document.getElementById("myHeader");
11             document.write("I like to eat ");
12             document.write(titlename.innerHTML);
13         }
14     </script>
15 </head>
16 <body>
17     <p id="myHeader" onclick="getValue()">pasta.</p>
18 </body>
19 </html>
```

Results



Exercise: 1

2. Open & close window

Code	
<pre><> variables.html <> io.html <> functions.html <> methods.html X Settings</pre>	
<pre>1 > <> methods.html > html > head > script > closeWindow 1 <!DOCTYPE html> 2 <html lang="en"> 3 <head> 4 <meta charset="UTF-8"> 5 <meta http-equiv="X-UA-Compatible" content="IE=edge"> 6 <meta name="viewport" content="width=device-width, initial-scale=1.0"> 7 <title>Document</title> 8 <script> 9 function openWindow(){ 10 smallWindow = window.open("", "", "width=100, height=100"); 11 smallWindow.document.write("<p>Hello there!</p>"); 12 } 13 14 function closeWindow(){ 15 SmallWindow.close(); 16 } 17 </script> 18 </head> 19 <body> 20 <input type="button" value="open a small window" onclick="openWindow()"> 21 <input type="button" value="close window" onclick="closeWindow()"> 22 </body> 23 </html></pre>	
Results	
