

<b>Instructor Manual</b>	<b>Lab Manual (Part-A)</b>	<b>Academic Year- 2021-22</b>
<b>Year:-</b>	<b>Subject:- Web Programming</b>	<b>Semester:-</b>

### PART-B

<b>Roll No.:</b> K041	<b>Name:</b> Anish Sudhan Nair
<b>Prog/Yr/Sem:</b> B.Tech. Cybersecurity	<b>Batch:</b> K2/A2
<b>Date of Experiment:</b> 04/02/2022	<b>Date of Submission:</b> 11/02/2022

Functions , Events and Arrays

- Write a Program to display Exponent of a two numbers using a JavaScript functions.

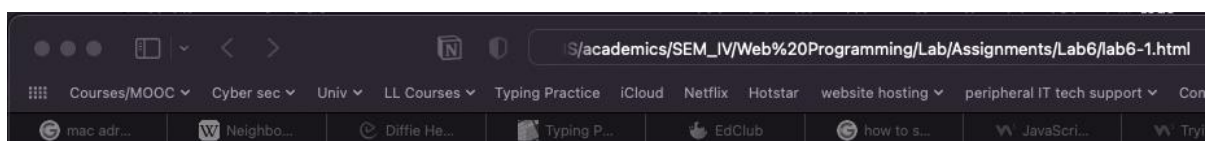
Code:

```

1  <!DOCTYPE html>
2  <html>
3    <head>
4      <title>Assignment 6.1 - AnishSudhanNair</title>
5    </head>
6    <body>
7
8      <script type="text/javascript">
9
10         document.getElementById('id1').innerHTML=Math.pow(4,3)
11
12         function exponent(b,e) {
13             var i, pow=1;
14             for ( i = 0; i < e; i++) {
15                 pow=pow*b;
16             }
17             return pow;
18         }
19     </script>
20     <script type="text/javascript">
21         var a=exponent(5,2);
22         document.write(a);
23
24     </script>
25
26 </body>
27 </html>
28

```

Output:



25

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2. Write a Program to display a Moon weight and input will be actual earth weight .

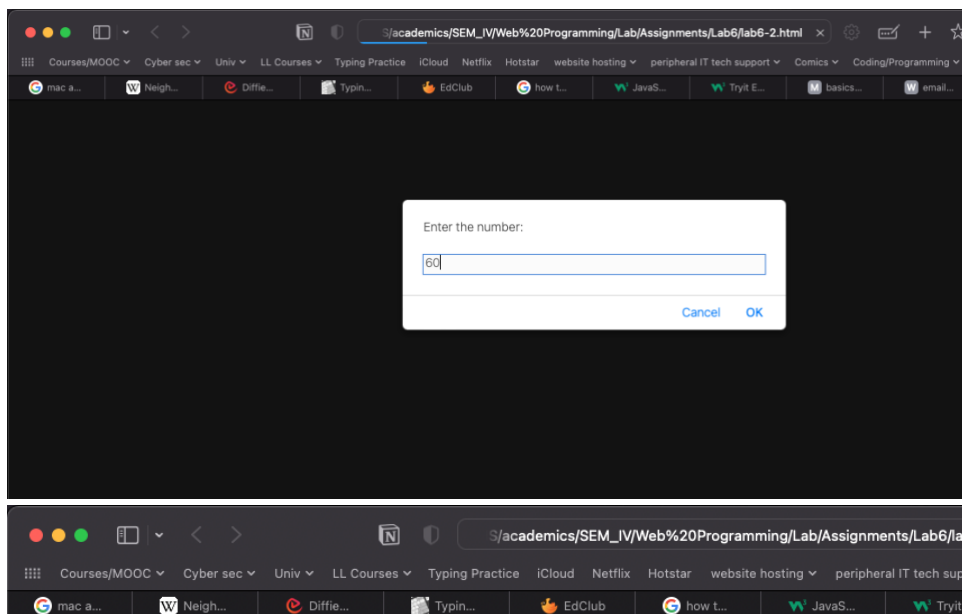
Code:

```

1  <!DOCTYPE html>
2  <html>
3    <head>
4      <title>Assignment 6.2 - AnishSudhanNair</title>
5      <script type="text/javascript">
6
7        function moonWeight() {
8          var weightOnEarth=parseInt(prompt('Enter the number: '));
9          var weightOnMoon = weightOnEarth/6;
10         document.write("Weight on Moon is " +weightOnMoon);
11       }
12     </script>
13   </head>
14   <body>
15
16     <script type="text/javascript">
17       moonWeight();
18
19     </script>
20
21   </body>
22 </html>
23

```

Output:



Weight on Moon is 10

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3. Write a java script program to create an Array for the students whose length is 5 . and display with ordered list.

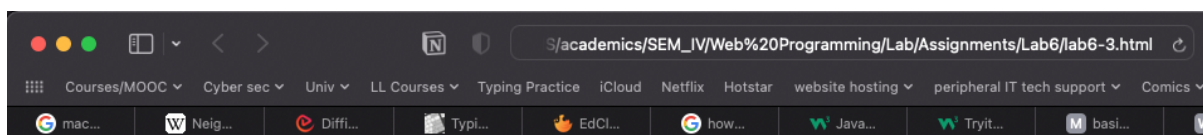
Code:

```

1  <!DOCTYPE html>
2  <html>
3    <head>
4      <title>Assignment 6.3 - AnishSudhanNair</title>
5    </head>
6    <body>
7      <p id="id1"></p>
8
9      <script type="text/javascript">
10
11        var fruits,text,fLen, i;
12
13        student=["Anish", "Sudhan", "Nair", "Rajendran", "Rando"];
14        fLen=student.length;
15        text="<ol>";
16        for ( i = 0; i < fLen; i++) {
17          text+="<li>" + student[i] + "</li>"
18        }
19        text+="</ol>"
20
21        document.getElementById('id1').innerHTML=text;
22
23      </script>
24
25    </body>
26  </html>
27

```

Output:



1. Anish
2. Sudhan
3. Nair
4. Rajendran
5. Rando

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4. push the new students into an array and display the new array list on MouseOver Event on paragraph tags.

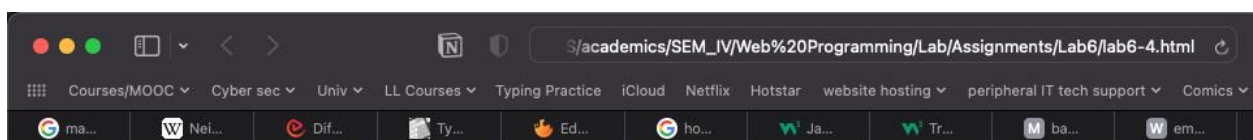
Code:

```

1  <!DOCTYPE html>
2  <html>
3    <head>
4      <title>Assignment 6.4 - AnishSudhanNair</title>
5    </head>
6    <body>
7      <p id="id1">Hover Mouse here!</p>
8
9      <script type="text/javascript">
10
11        var student;
12
13        student=["Anish", "Sudhan", "Nair", "Rajendran", "Rando"];
14
15        function mouseOver() {
16          document.getElementById('id1').innerHTML=student;
17        }
18
19        function mouseOut() {
20          document.getElementById('id1').innerHTML="Hover mouse here again!";
21        }
22
23        document.getElementById('id1').addEventListener("mouseover",mouseOver);
24        document.getElementById('id1').addEventListener("mouseout", mouseOut);
25
26      </script>
27
28    </body>
29  </html>
30

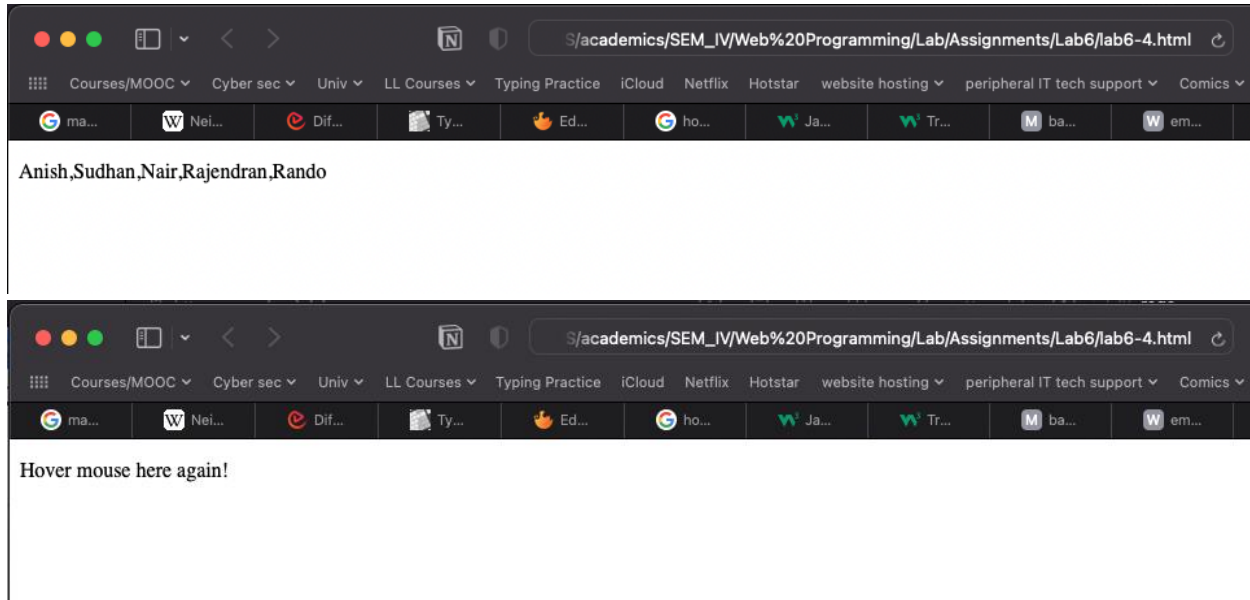
```

Output:



Hover Mouse here!

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5. Splice ,new 3 students into an array on image Onclick Event.

Code:

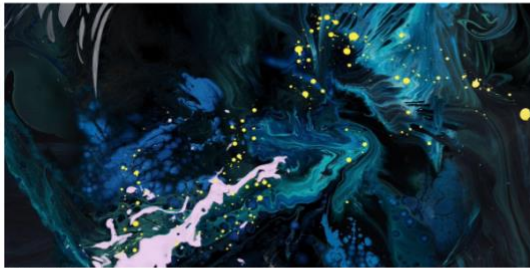
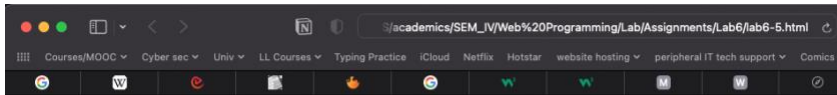
```

1  <!DOCTYPE html>
2  <html>
3  <head>
4  <title>Assignment 6.5 - AnishSudhanNair</title>
5  </head>
6  <body>
7
8  <p id="id1">
9  <br>
10 Click the Image
11 </p>
12
13 <script type="text/javascript">
14
15     var student;
16
17     student=["Anish", "Sudhan", "Nair", "Rajendran", "Rando"];
18
19     function mouseClicked() {
20         var spliceStudent=student.splice(0, 3)
21         document.getElementById('id1').innerHTML=spliceStudent;
22     }
23
24     function mouseOut() {
25         document.getElementById('id1').innerHTML="<img src='img1.jpeg' height='300' width='600'>Click here again!";
26     }
27
28     document.getElementById('id1').addEventListener("click", mouseClicked);
29     document.getElementById('id1').addEventListener("mouseout", mouseOut);
30
31 </script>
32
33 </body>
34 </html>

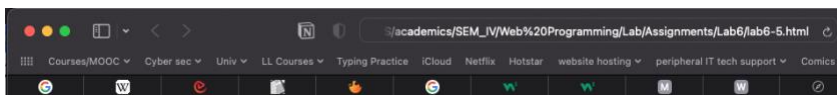
```

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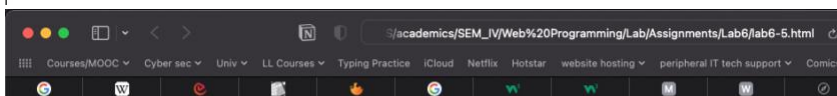
Output:



Click the Image



Anish,Sudhan,Nair



Click here again!

6. concatenate the two array called girls and boys students on division Onclick Event.

Code:



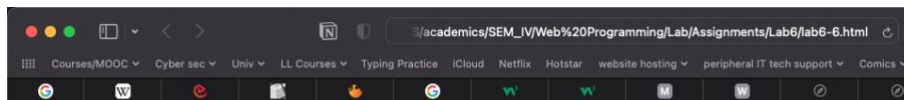
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```

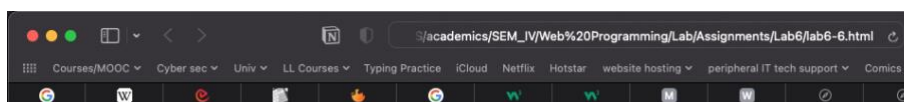
1  <!DOCTYPE html>
2  <html>
3    <head>
4      <title>Assignment 6.6 - AnishSudhanNair</title>
5    </head>
6    <body>
7      <p id="id1">Click here amigo!</p>
8      <script type="text/javascript">
9
10         var boys=["Anish", "Athul", "Ashok", "Aniketh"];
11         var girls=["Mary Jane", "Lois Lane", "Carol Ferris", "Iris West"];
12
13         function mouseClicked() {
14             var kids=boys.concat(girls);
15             document.getElementById('id1').innerHTML=kids;
16         }
17
18         document.getElementById('id1').addEventListener("click", mouseClicked);
19     </script>
20 </body>
21 </html>

```

Output:



Click here amigo!



Anish,Athul,Ashok,Aniketh,Mary Jane,Lois Lane,Carol Ferris,Iris West

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7. slice the students array into 3 halves using slice function of java Script.

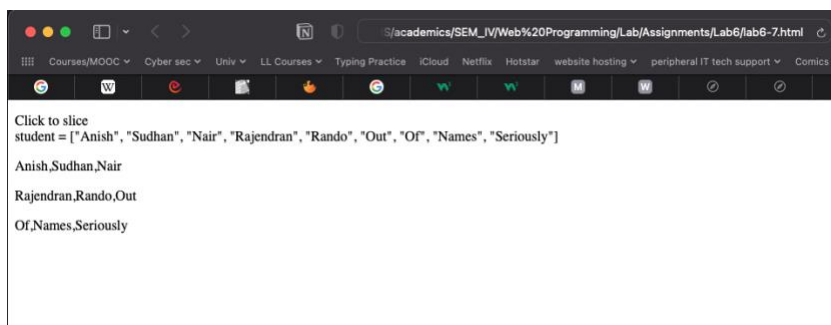
Code:

```

1  <!DOCTYPE html>
2  <html>
3  <head>
4    <title>Assignment 6.7 - AnishSudhanNair</title>
5  </head>
6  <body>
7
8    <p id="id0">
9      Click to slice <br>
10     student = ["Anish", "Sudhan", "Nair", "Rajendran", "Rando", "Out", "Of", "Names", "Seriously"]
11   </p>
12   <p id="id1"></p>
13   <p id="id2"></p>
14   <p id="id3"></p>
15
16   <script type="text/javascript">
17
18     var student;
19     student=["Anish", "Sudhan", "Nair", "Rajendran", "Rando", "Out", "Of", "Names", "Seriously"];
20
21
22     function slicer() {
23       let splicedStudent1=student.splice(0, 3);
24       let splicedStudent2=student.splice(0, 3);
25       let splicedStudent3=student.splice(0, 3);
26       document.getElementById('id1').innerHTML=splicedStudent1;
27       document.getElementById('id2').innerHTML=splicedStudent2;
28       document.getElementById('id3').innerHTML=splicedStudent3;
29     }
30
31     document.getElementById('id0').addEventListener("click", slicer);
32
33   </script>
34
35 </body>
36 </html>

```

Output:



8. Validations 1

- Write a Program to Accept User Name , User Age ,User Phone Number.
- Check No user input is left or blank.
- User Name length should be 10 char long.
- User Age should be more than 20 and less than 90.



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- e. User Phone length should be 10 digit long.
- f. Note:- User inner html for displaying an error message.

Code:

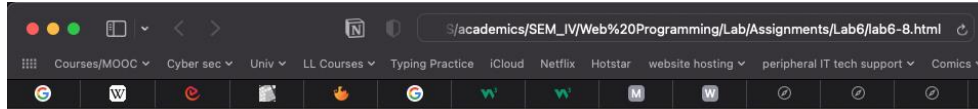
```

1  <!DOCTYPE html>
2  <html>
3  <head>
4    <title>Assignment 6.8 - AnishSudhanNair</title>
5  </head>
6
7  <body>
8    <center>
9      <h1 style="margin-top: 30px">Form Validation</h1>
10    </center>
11    <form action="form_result.html" name="formValidation" onsubmit="return validate()">
12      <fieldset>
13
14        <label for="username">User Name: </label> <br>
15        <input type="text" id="username" name="username">
16        <br>
17        <label for="userage">User Age: </label> <br>
18        <input type="text" id="userage" name="userage">
19        <br>
20        <label for="phone">Phone: </label> <br>
21        <input type="text" id="phone" name="phone">
22        <br>
23        <br />
24        <input type="submit" name="submit" value="Submit">
25        <input type="reset" name="reset" value="Reset">
26        <p id="error"></p>
27      </fieldset>
28    </form>
29    <script type="text/javascript">
30
31      function validate() {
32
33        if
34        ((document.formValidation.username.value=="")||(document.formValidation.userage.value=="")||(document.formValidation.ph
35        one.value=="")) {
36          document.getElementById("error").innerHTML="Input cannot be empty";
37          return (false);
38        }
39
40        if (document.formValidation.username.value.length!=10) {
41          document.getElementById("error").innerHTML="Username must be 10 characters long";
42          return (false);
43        }
44
45        if
46        ((isNaN(document.formValidation.userage.value))||(document.formValidation.userage.value<20)||((document.formValidation.u
47        serage.value>90)) {
48          document.getElementById("error").innerHTML="Age must be between 20 and 90";
49          return (false);
50        }
51
52        if ((isNaN(document.formValidation.phone.value))||(document.formValidation.phone.value.length!=10)) {
53          document.getElementById("error").innerHTML="Phone number must be 10 digits (numeric) long";
54          return (false);
55        }
56
57        return (true);
58      }
59    </script>
60  </body>
61 </html>

```

Output:

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### Form Validation

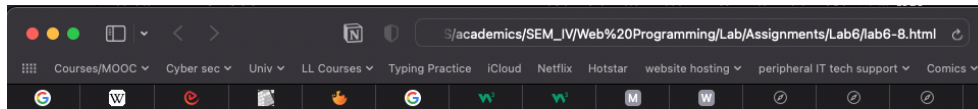
User Name:

User Age:

Phone:

Submit Reset

Username must be 10 characters long



### Form Validation

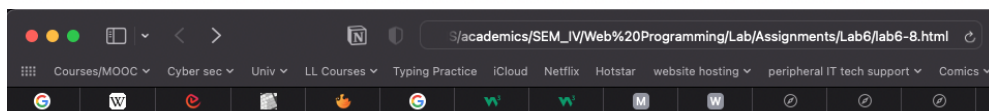
User Name:

User Age:

Phone:

Submit Reset

Age must be between 20 and 90



### Form Validation

User Name:

User Age:

Phone:

Submit Reset

Phone number must be 10 digits (numeric) long

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### 9. Form Validations 2

▶ Create a forms with java script to validate following.

1.First Name:-   
(should not be blank,7 char long,no integer)

2.Last Name:-   
(should not be blank,7-10 char long, no integer)

3.Phone Number   
(should not be blank, 10 char long, only integer)

3.Email id:-   
(should not be blank, email vaification)

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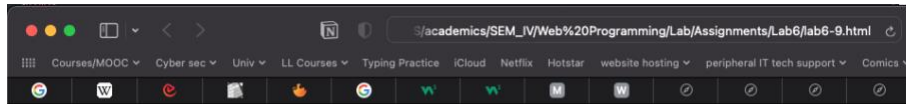
Code:

```

1  <!DOCTYPE html>
2  <html>
3  <head>
4  <title>Assignment 6.9 - AnishSudhanNair</title>
5  </head>
6
7  <body>
8  <center>
9  <h1 style="margin-top: 30px">Form Validation 2</h1>
10 </center>
11 <form action="form_result.html" name="formValidation" onsubmit="return validate()">
12   <fieldset>
13
14     <label for="firstname">First Name: </label> <br>
15     <input type="text" id="firstname" name="firstname">
16     <br>
17     <label for="lastname">Last Name: </label> <br>
18     <input type="text" id="lastname" name="lastname">
19     <br>
20     <label for="phone">Phone: </label> <br>
21     <input type="text" id="phone" name="phone">
22     <br>
23     <label for="email">Email: </label> <br>
24     <input type="email" id="email" name="email">
25     <br>
26     <br />
27     <input type="submit" name="submit" value="Submit">
28     <input type="reset" name="reset" value="Reset">
29     <p id="error"></p>
30   </fieldset>
31 </form>
32 <script type="text/javascript">
33
34   function validate() {
35
36     var letters = /^[A-Za-z]+$;/;
37
38     if
39     *
40     *
41     *
42     *
43     *
44     *
45     *
46     *
47     *
48     *
49     *
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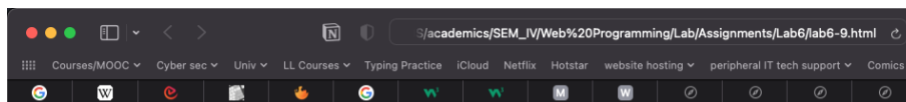
<b>Instructor Manual</b>	<b>Lab Manual (Part-A)</b>	<b>Academic Year- 2021-22</b>
<b>Year:-</b>	<b>Subject:- Web Programming</b>	<b>Semester:-</b>

Output:



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### Form Validation 2

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## observation and Learning:-

We were introduced to more advanced functions of JavaScript, its functions and other syntax and means of incorporating within the codes of existing web pages made of CSS and HTML. We further learnt to write text and answers derived from logical arithmetic on the web page by using functions, arrays, array operations, form validations and such. JavaScript helps to greatly increase the functionality of a web page.

## Conclusion:-

In this practical we learnt about more intermediate JavaScript and its implementation in web pages.

<b>Instructor Manual</b>	<b>Lab Manual (Part-A)</b>	<b>Academic Year- 2021-22</b>
<b>Year:-</b>	<b>Subject:- Web Programming</b>	<b>Semester:-</b>

## Questions:-

1. What is meaning of inner html?

innerHTML is used to interact with HTML elements from within JavaScript. It can be used to either return the content of an HTML element or set its content.

2. What is the meaning of DOM?

DOM which stands for Document Object Model is a tree structure of all the HTML elements in a web page that is created by the browser when the page is loaded. JavaScript therein uses the DOM to manipulate and interact with the HTML elements in that page.

3. What is JavaScript needed to be used in conjunction with HTML for building webpages?

The main advantage of using JavaScript in a webpage is the dynamic interaction that it allows for. It enables users to interact with the page without having to reload it every time and can update and data and manipulate the elements and front end in real time on interacting with the user. This, apart from increasing the functionality of the page, enables to make it look and feel better than a static HTML only web page.