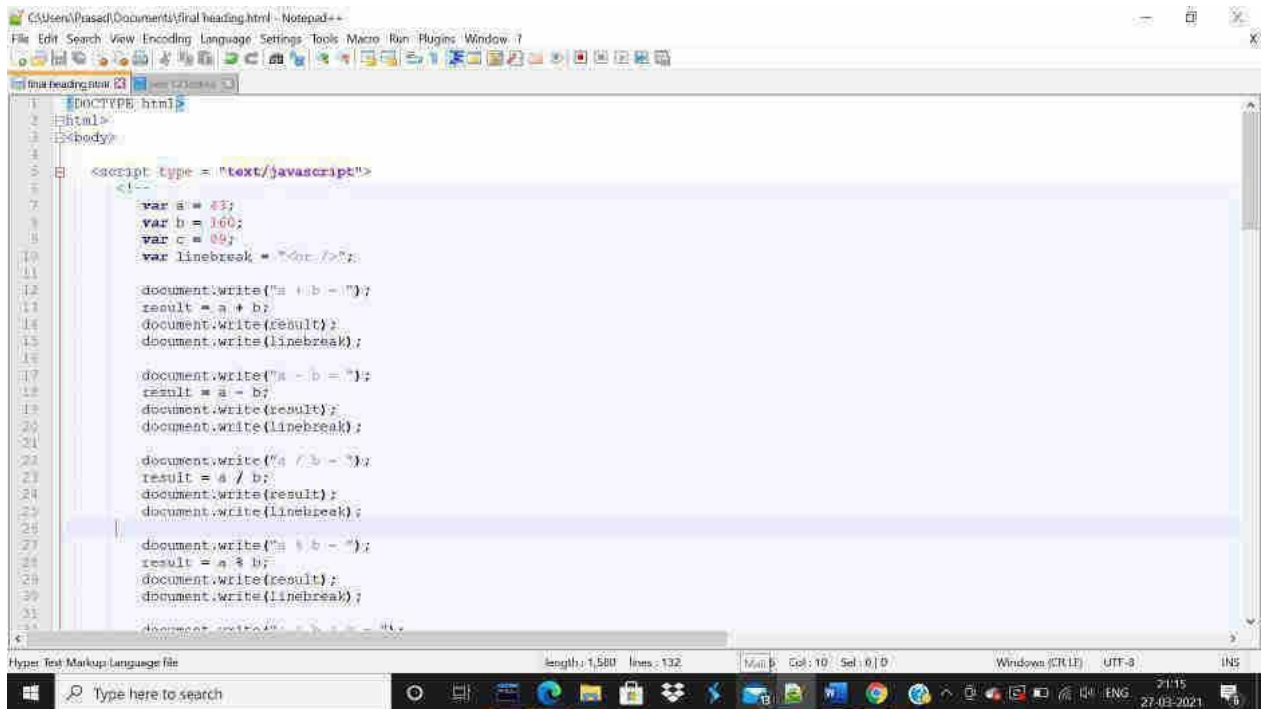
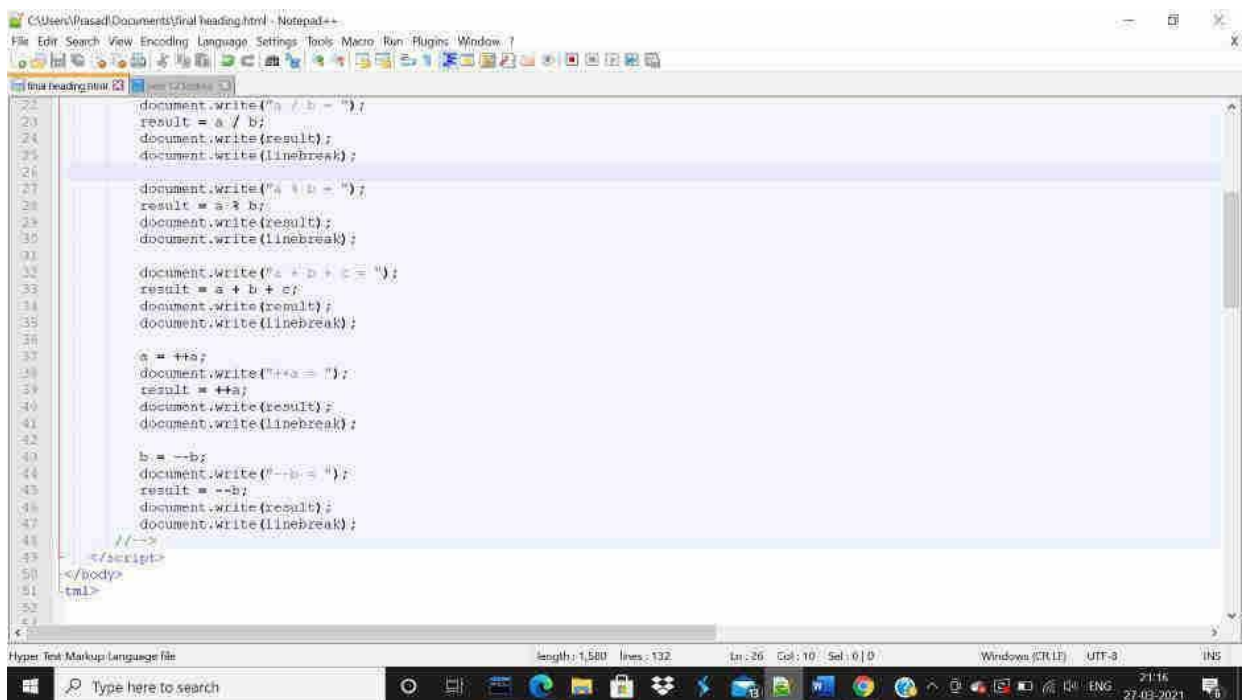


## 11. Working with operators, iterative and conditional loops in JavaScript

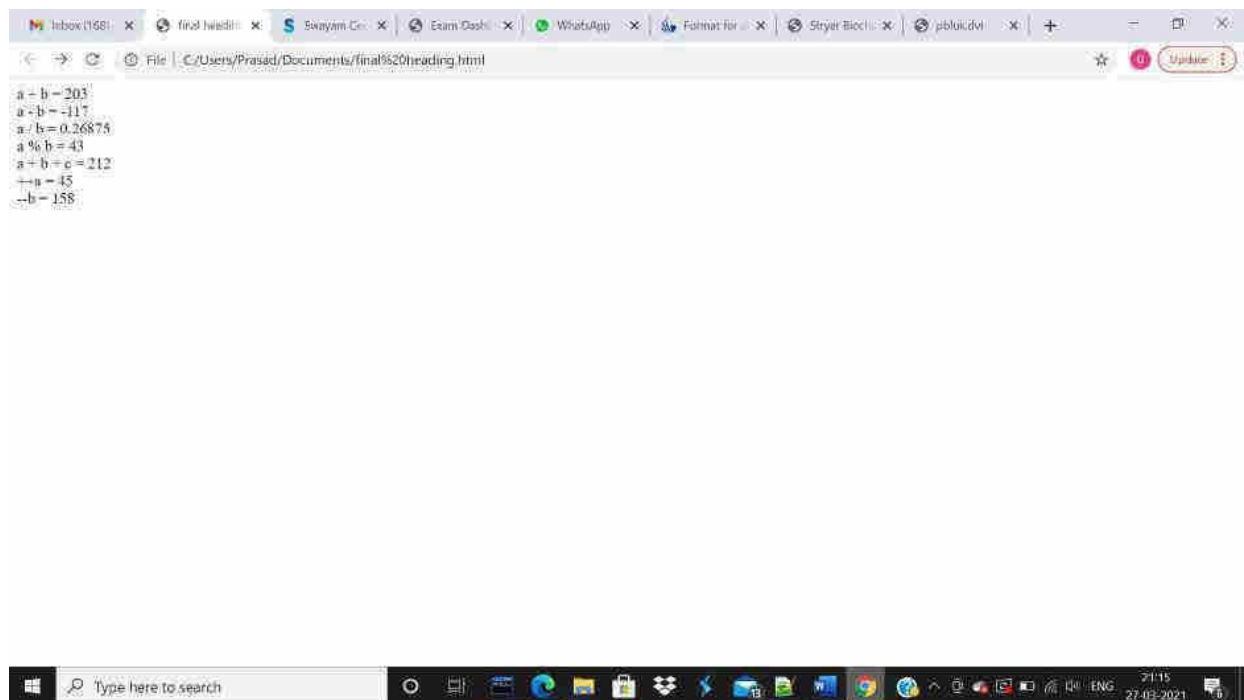
### 1. Create a webpage demonstrating usage of arithmetic operators in JavaScript.



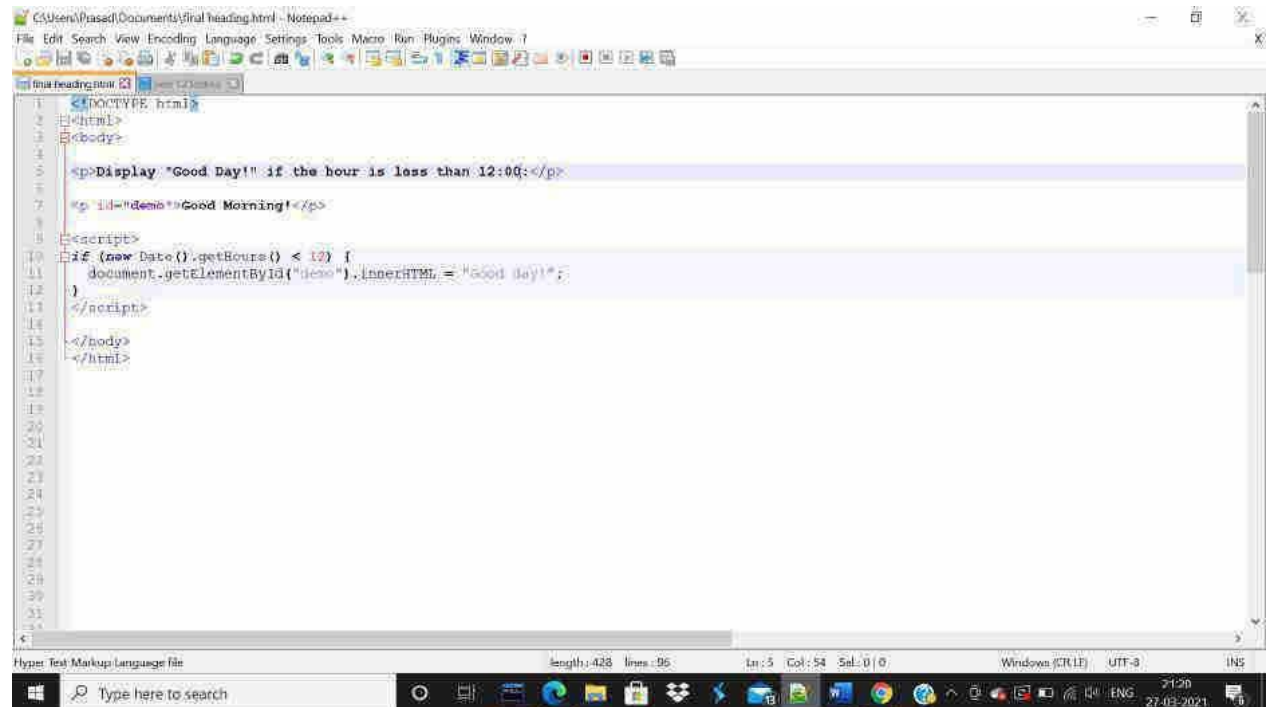
```
1 <!DOCTYPE html>
2 <html>
3 <body>
4
5 <script type = "text/javascript">
6 <!--
7     var a = 43;
8     var b = 160;
9     var c = 69;
10    var linebreak = "<br/>";
11
12    document.write("a + b = ");
13    result = a + b;
14    document.write(result);
15    document.write(linebreak);
16
17    document.write("a - b = ");
18    result = a - b;
19    document.write(result);
20    document.write(linebreak);
21
22    document.write("a / b = ");
23    result = a / b;
24    document.write(result);
25    document.write(linebreak);
26
27    document.write("a % b = ");
28    result = a % b;
29    document.write(result);
30    document.write(linebreak);
31
32    document.write("a * b = ");
33    result = a * b;
34    document.write(result);
35    document.write(linebreak);
36
37    document.write("a ** b = ");
38    result = a ** b;
39    document.write(result);
40    document.write(linebreak);
41
42    document.write("a ** b = ");
43    result = a ** b;
44    document.write(result);
45    document.write(linebreak);
46
47    document.write("a ** b = ");
48    result = a ** b;
49    document.write(result);
50    document.write(linebreak);
51
52    document.write("a ** b = ");
53    result = a ** b;
54    document.write(result);
55    document.write(linebreak);
56
57    document.write("a ** b = ");
58    result = a ** b;
59    document.write(result);
60    document.write(linebreak);
61
62    document.write("a ** b = ");
63    result = a ** b;
64    document.write(result);
65    document.write(linebreak);
66
67    document.write("a ** b = ");
68    result = a ** b;
69    document.write(result);
70    document.write(linebreak);
71
72    document.write("a ** b = ");
73    result = a ** b;
74    document.write(result);
75    document.write(linebreak);
76
77    document.write("a ** b = ");
78    result = a ** b;
79    document.write(result);
80    document.write(linebreak);
81
82    document.write("a ** b = ");
83    result = a ** b;
84    document.write(result);
85    document.write(linebreak);
86
87    document.write("a ** b = ");
88    result = a ** b;
89    document.write(result);
90    document.write(linebreak);
91
92    document.write("a ** b = ");
93    result = a ** b;
94    document.write(result);
95    document.write(linebreak);
96
97    document.write("a ** b = ");
98    result = a ** b;
99    document.write(result);
100   document.write(linebreak);
101
102   -->
103 </script>
104 </body>
105 </html>
```



```
22 document.write("a / b = ");
23 result = a / b;
24 document.write(result);
25 document.write(linebreak);
26
27 document.write("a % b = ");
28 result = a % b;
29 document.write(result);
30 document.write(linebreak);
31
32 document.write("a + b + c = ");
33 result = a + b + c;
34 document.write(result);
35 document.write(linebreak);
36
37 a = ++a;
38 document.write("++a = ");
39 result = ++a;
40 document.write(result);
41 document.write(linebreak);
42
43 b = --b;
44 document.write("--b = ");
45 result = --b;
46 document.write(result);
47 document.write(linebreak);
48
49 // -->
50 </script>
51 </body>
52 </html>
```

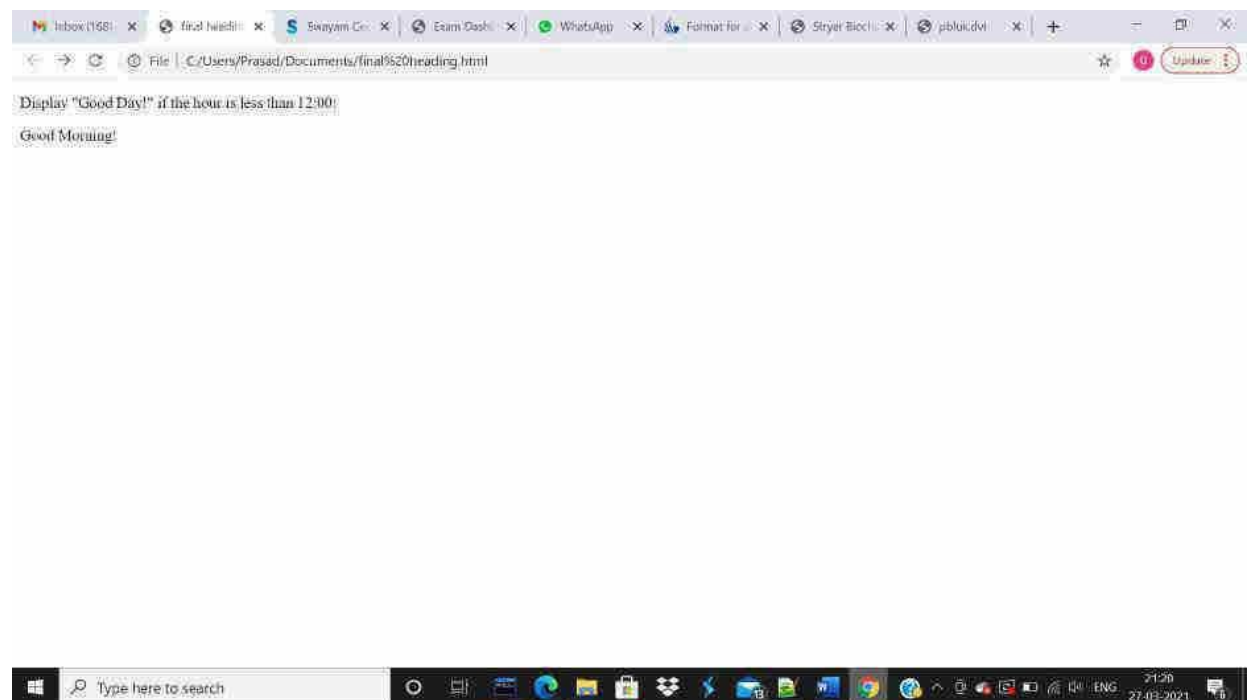


## 2. Create a webpage demonstrating usage of if statement in JavaScript

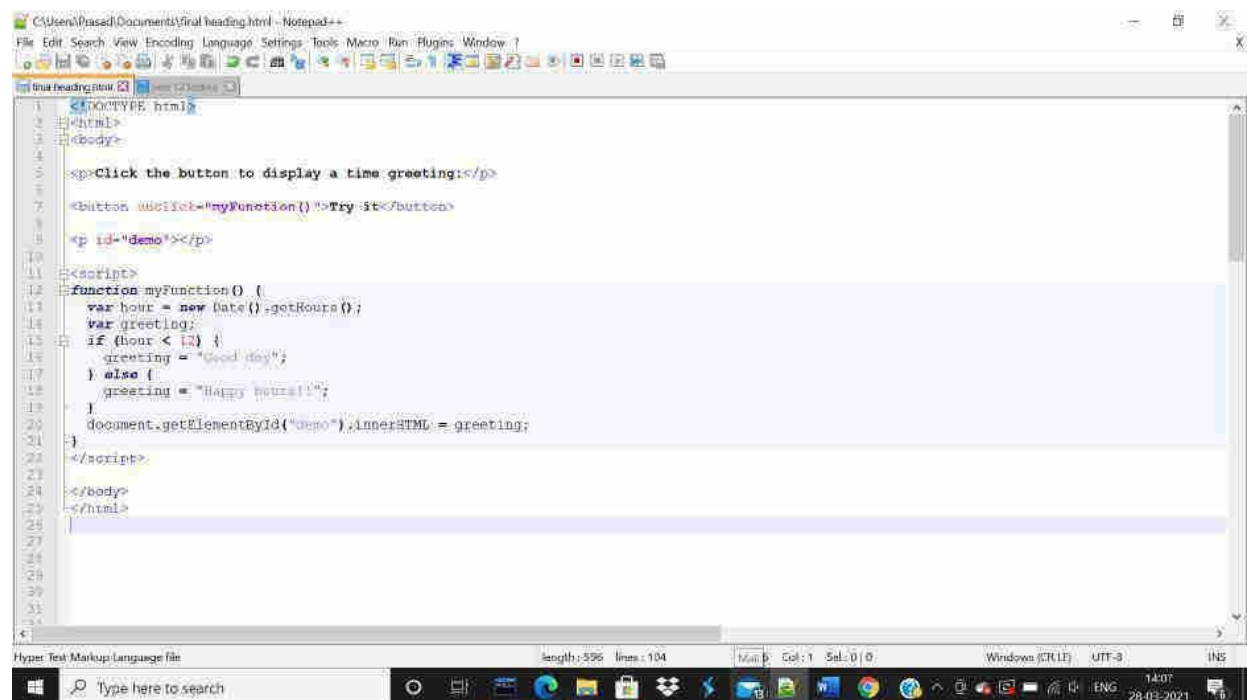
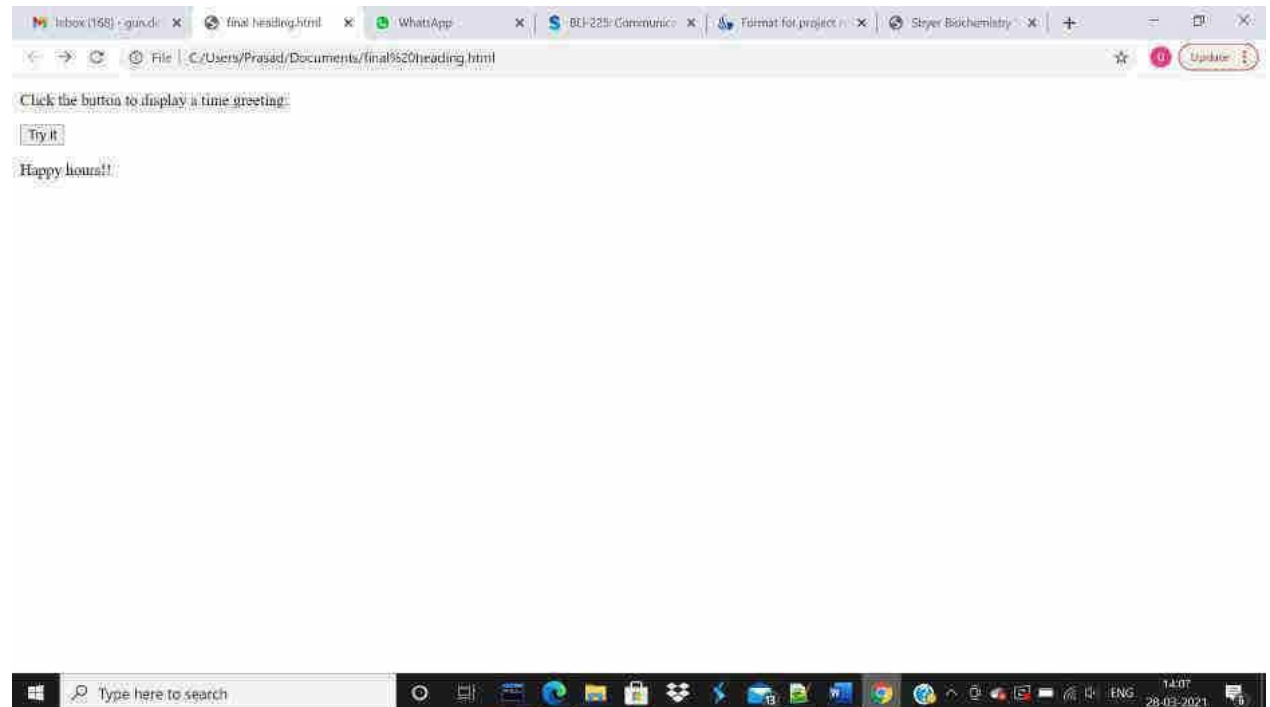


```
1 <!DOCTYPE html>
2 <html>
3 <body>
4
5 <p>Display "Good Day!" if the hour is less than 12:00:</p>
6
7 <p id="demo">Good Morning!</p>
8
9 <script>
10 if (new Date().getHours() < 12) {
11     document.getElementById("demo").innerHTML = "Good Day!";
12 }
13 </script>
14
15 </body>
16 </html>
```

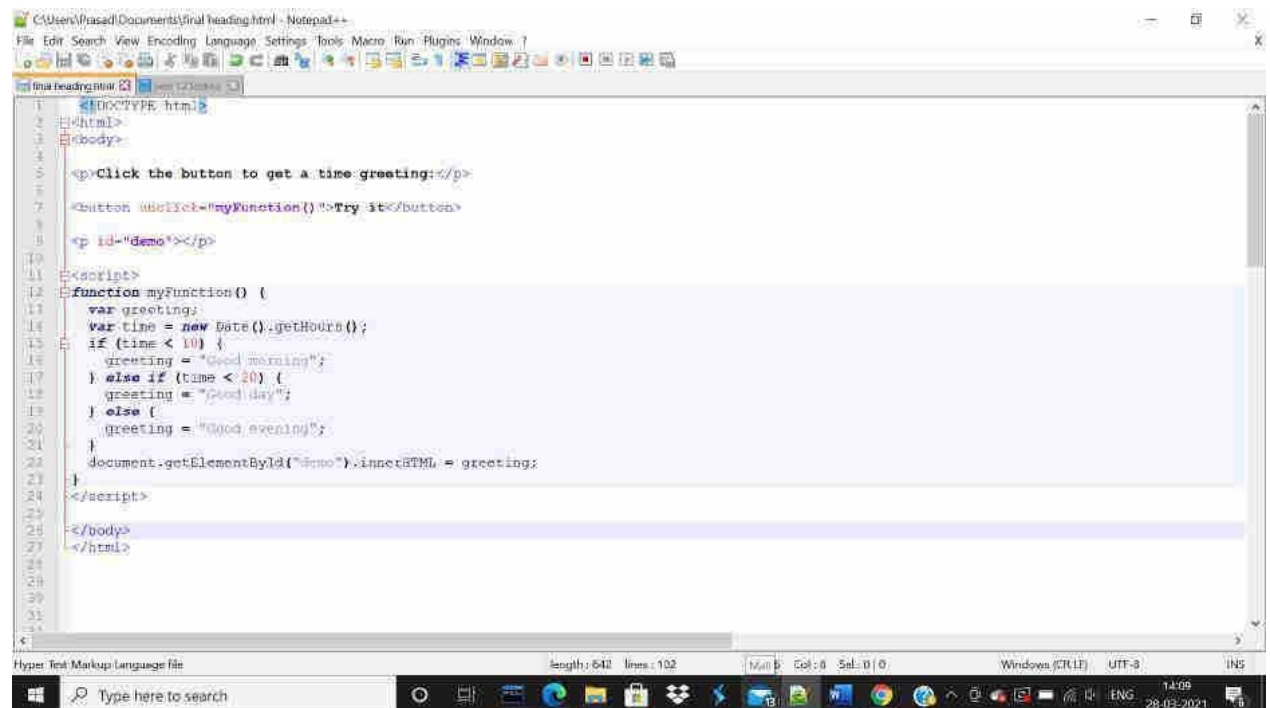
Hyper Text Markup Language file length: 428 lines: 96 lin: 5 Col: 54 Sel: 0 | 0 Windows (CRLF) UTF-8 IN5



### 3. Create a webpage demonstrating usage of if...else statement in JavaScript



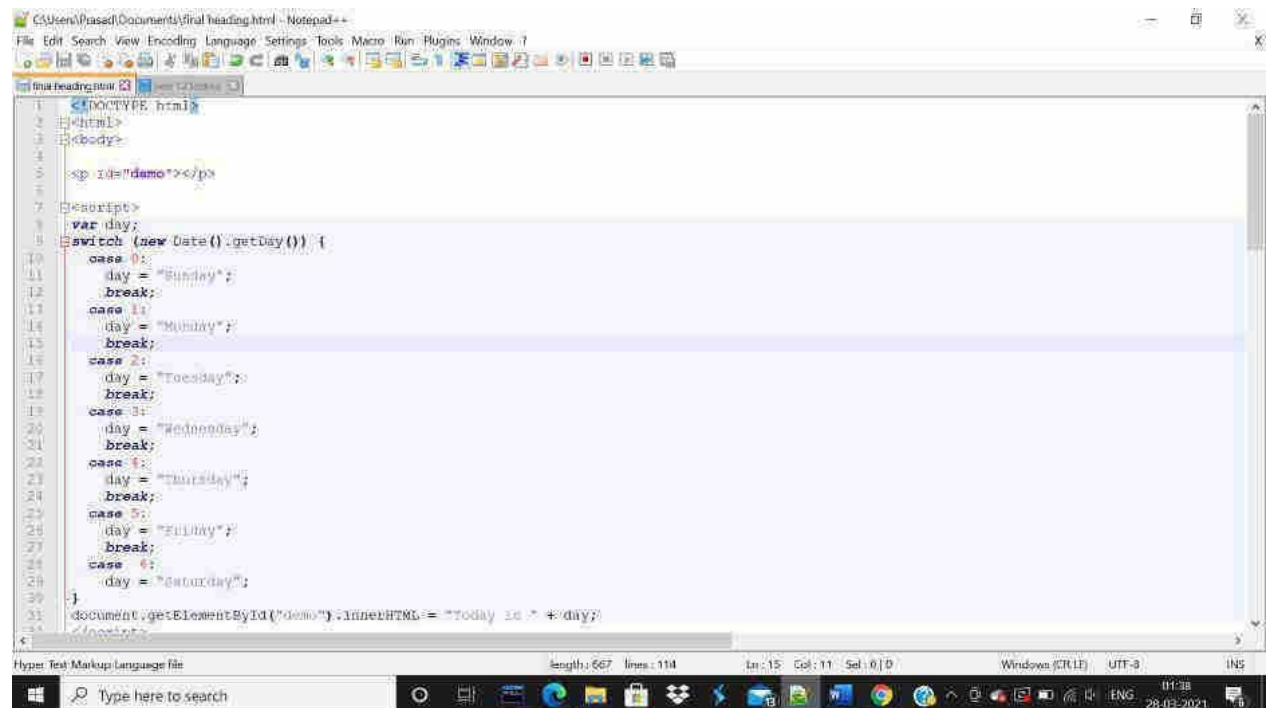
#### 4. Create a webpage demonstrating usage of if... else if statement in JavaScript



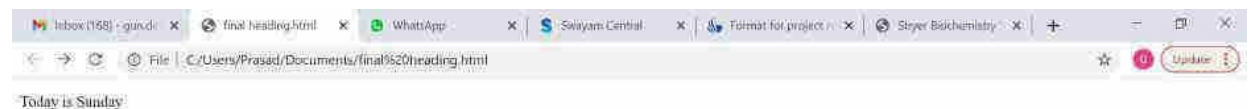
```
1 <!DOCTYPE html>
2 <html>
3 <body>
4 <p>Click the button to get a time greeting:</p>
5
6 <button onclick="myFunction()">Try it</button>
7
8 <p id="demo"></p>
9
10
11 <script>
12 function myFunction() {
13     var greeting;
14     var time = new Date().getHours();
15     if (time < 10) {
16         greeting = "Good morning";
17     } else if (time < 20) {
18         greeting = "Good day";
19     } else {
20         greeting = "Good evening";
21     }
22     document.getElementById("demo").innerHTML = greeting;
23 }
24 </script>
25
26 </body>
27 </html>
```



## 5. Create a webpage demonstrating use of switch in JavaScript



```
1 <!DOCTYPE html>
2 <html>
3 <body>
4
5 <p id="demo"></p>
6
7 <script>
8 var day;
9 switch (new Date().getDay()) {
10 case 0:
11     day = "Sunday";
12     break;
13 case 1:
14     day = "Monday";
15     break;
16 case 2:
17     day = "Tuesday";
18     break;
19 case 3:
20     day = "Wednesday";
21     break;
22 case 4:
23     day = "Thursday";
24     break;
25 case 5:
26     day = "Friday";
27     break;
28 case 6:
29     day = "Saturday";
30 }
31 document.getElementById("demo").innerHTML += "Today is " + day;
32 </script>
```



6. Create a webpage demonstrating use of
  - i. while loop in JavaScript
  - ii. do..while loop in JavaScript
  - iii. for loop
  - iv. For in loop

Code:

```
<html>

<head>

<script type="text/javascript">

var students = new Array("Rahul" , "Raj" , "Aman", "Edwin",
"Elizabeth");

document.write("<b>Using    for    loops    </b><br    />");    for
(i=0;i<students.length;i++)
{
document.write(students[i] + "<br />");
}

</script>

<script type="text/javascript">

document.write("<b>Using while loops </b><br />");var i = 0, j = 1, k;
document.write("Fibonacci series less than 40<br />");while(i<40)
{
document.write(i + "<br />");k = i+j;
i = j; j = k;
}

</script>

<script type="text/javascript">

document.write("<b>Using do...while loops </b><br />");var i = 2;
```

```

document.write("Even numbers less than 20<br />");do
{
document.write(i + "<br />");i = i + 2;
}while(i<20)
</script>
</head>
<body>
</body>
</html>

```

```

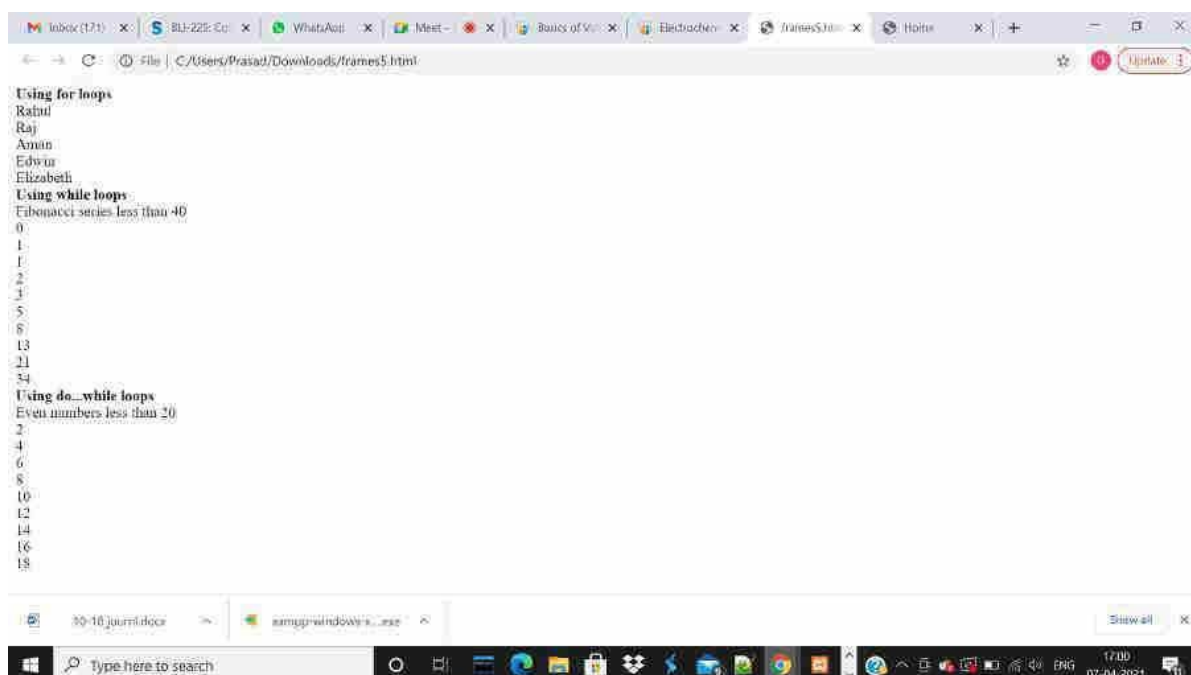
1 <html>
2 <head>
3   <script type="text/javascript">
4     var students = new Array("Bahul", "Raj", "Aman", "Adwin", "Elizabeth");
5     document.write("<b>Using for loops </b><br />");
6     for (i=0;i<students.length;i++)
7     {
8       document.write(students[i] + "<br />");
9     }
10
11   </script>
12
13   <script type="text/javascript">
14     document.write("<b>Using while loops </b><br />");
15     var i = 0, j = 1, k;
16     document.write("Fibonacci series less than 40<br />");
17     while(i<40)
18     {
19       document.write(i + "<br />");
20       k = i+j;
21       i = j;
22       j = k;
23     }
24   </script>
25   <script type="text/javascript">
26     document.write("<b>Using do...while loops </b><br />");
27     var i = 2;
28     document.write("Even numbers less than 20<br />");

```



```
C:\Users\Prasad\Downloads\frames5.html - Notepad++
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window Help

13 <script type="text/javascript">
14 document.write("<b>Using while loops </b><br />");
15 var i = 0, j = 1, k;
16 document.write("Fibonacci series less than 40<br />");
17 while(i<40)
18 {
19     document.write(i + "<br />");
20     k = i+j;
21     i = j;
22     j = k;
23 }
24 </script>
25 <script type="text/javascript">
26 document.write("<b>Using do...while loops </b><br />");
27 var i = 2;
28 document.write("Even numbers less than 20<br />");
29 do
30 {
31     document.write(i + "<br />");
32     i = i + 2;
33 }while(i<20);
34 </script>
35 </head>
36 <body>
37 </body>
38 </html>
39
40
Hyper Text Markup Language file length: 848 lines: 40 in: 20 Col: 21 Sel: 0 | 0 Windows (CR LF) UTF-8 OVR
```



7. Create a webpage demonstrating use of control statements, break and continue.

Code:

```
<!DOCTYPE html>

<html>

<body>

<h2>JavaScript Loops</h2>

<p>This is a loop with continue <b>continue</b> statement.</p>

<p>This is loop which will skip the step where i = 3.</p>

<p id="demo"></p>

<script>

var text = "";var i;

for (i = 0; i < 10; i++) {

if (i === 3) { continue; }

text += "The number is " + i + "<br>";

}

document.getElementById("demo").innerHTML = text;

</script>

<script>

var text = "";var i;

for (i = 0; i < 10; i++) { if (i

=== 3) { break; }

text += "The number is " + i + "<br>";

}

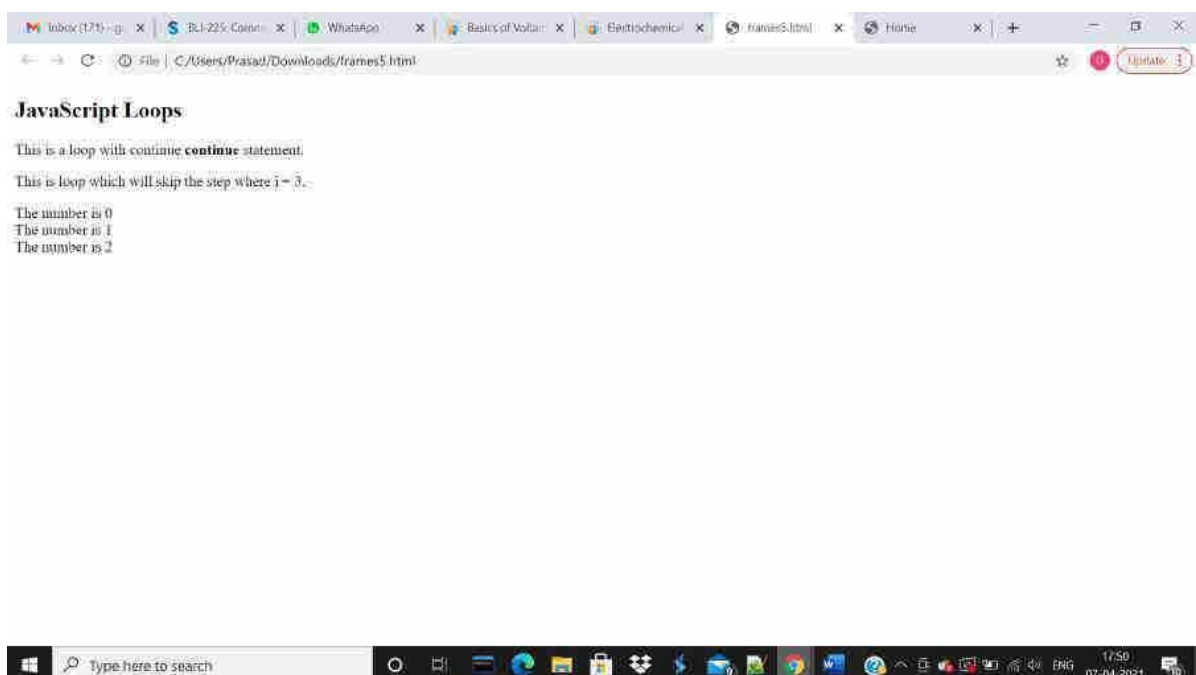
document.getElementById("demo").innerHTML = text;

</script>

</body>

</html>
```

```
1 <!DOCTYPE html>
2 <html>
3 <body>
4
5 <h2>JavaScript Loops</h2>
6
7 <p>This is a loop with continue <!--continue--> statement.</p>
8
9 <p>This is loop which will skip the step where i = 3.</p>
10
11 <p id="demo"></p>
12
13 <script>
14 var text = "";
15 var i;
16 for (i = 0; i < 10; i++) {
17   if (i === 3) { continue; }
18   text += "The number is " + i + "<br>";
19 }
20 document.getElementById("demo").innerHTML = text;
21
22 </script>
23
24 <script>
25 var text = "";
26 var i;
27 for (i = 0; i < 10; i++) {
28   if (i === 3) { break; }
29   text += "The number is " + i + "<br>";
30 }
31 document.getElementById("demo").innerHTML = text;
32 </script>
33 </body>
34 </html>
```



## 12. Working with JavaScript pop-up boxes

1. Create a webpage highlighting a proper scenario of using a dialogue box.

Code:

```
<!DOCTYPE html>

<html>

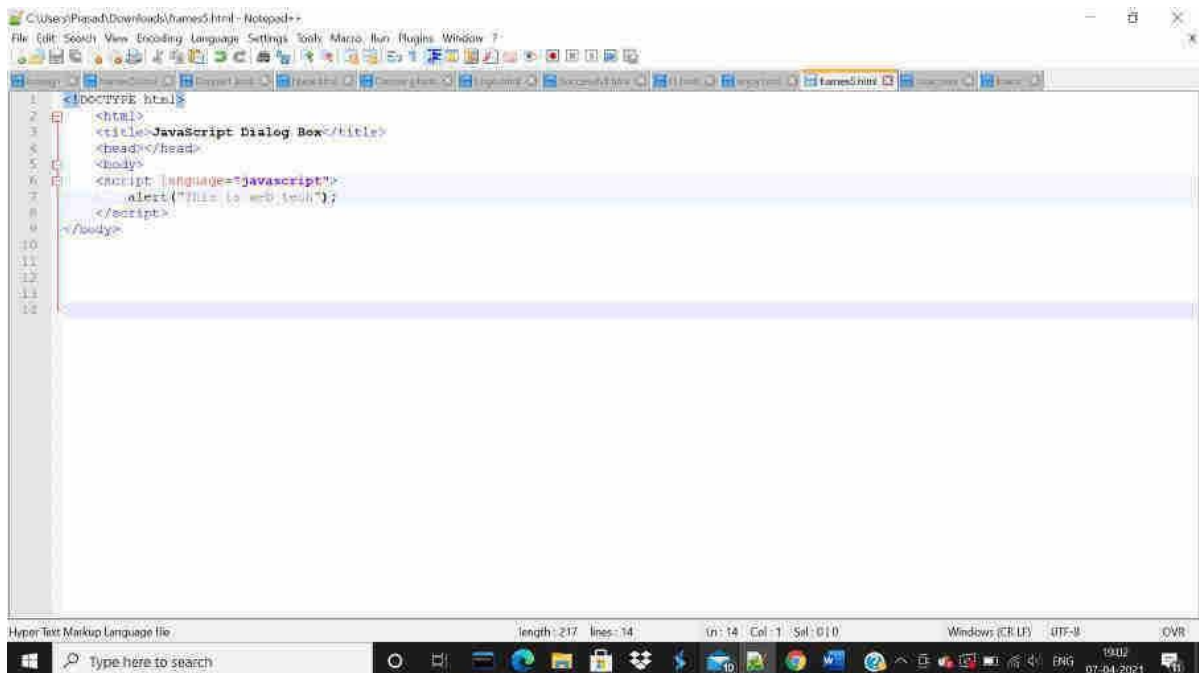
<title>JavaScript Dialog Box</title>

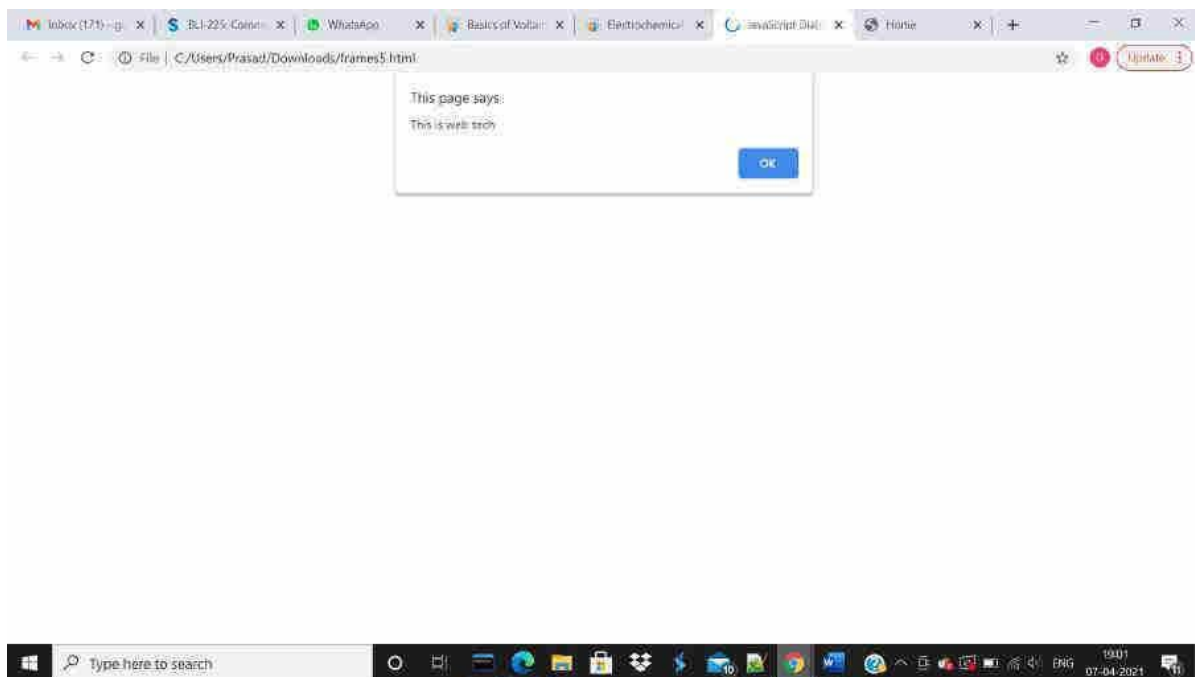
<head></head>

<body>

<script      language="javascript">
alert("This is web tech");
</script>

</body>
```





2. Create a webpage highlighting a proper scenario of using a confirm box.

Code:

```
<!DOCTYPE html>

<html>

<head>

<script type="text/javascript">

function Confirmation(){

var Val = confirm("Do you want to continue ?");if( Val == true ){

document.write (" CONTINUED!");return true;


</script>

</head>

<body>
```

```
}  
else{  
  
}  
}
```

```
document.write ("NOT CONTINUED!");return false;
```

```
<p>Click me: </p>
```

```
<form>
```

```
<input type="button" value="Click Me" onclick="Confirmation();" />
```

```
</form>
```

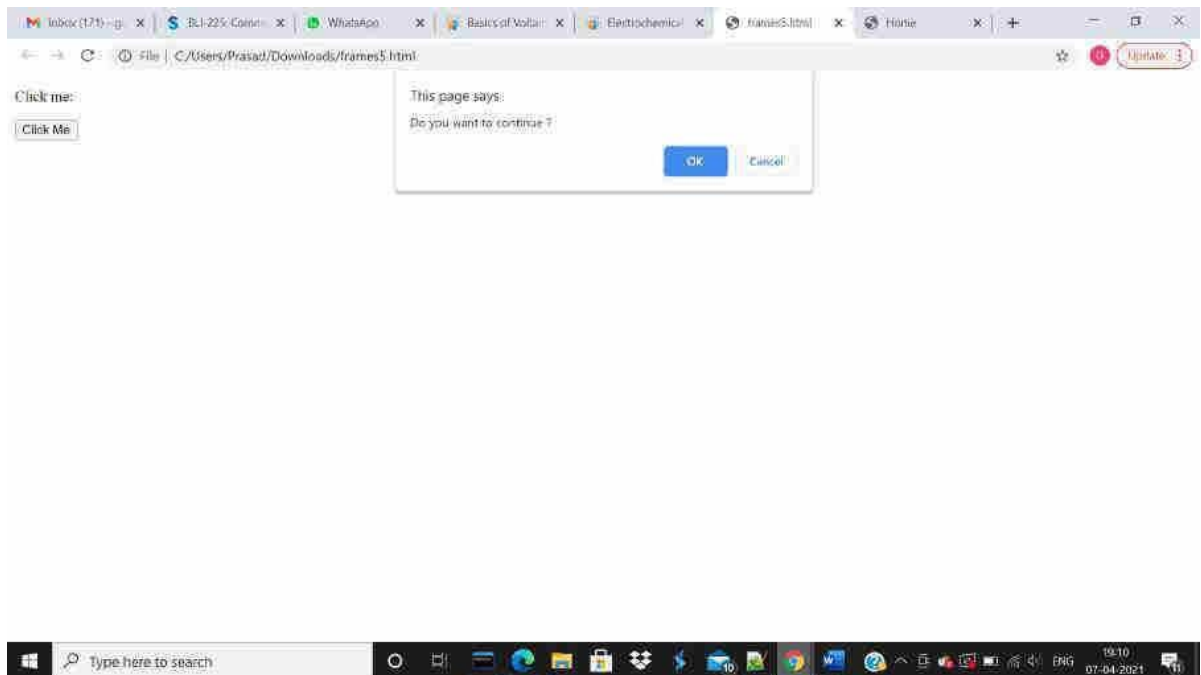
```
</body>
```

```
</html>
```



```
C:\Users\Prasad\Downloads\frames5.html - Notepad++
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?

1 <!DOCTYPE html>
2 <html>
3 <head>
4
5 <script type="text/javascript">
6
7     function Confirmation(){
8         var Val = confirm("Do you want to continue?");
9         if( Val == true ){
10             document.write ("CONTINUED!");
11             return true;
12         }
13         else{
14             document.write ("NOT CONTINUED!");
15             return false;
16         }
17     }
18
19 </script>
20
21 </head>
22 <body>
23 <p>Click me:</p>
24
25 <form>
26 <input type="button" value="Click Me" onclick="Confirmation();" />
27 </form>
28
29 </body>
30 </html>
31
32
HyperText Markup Language file length: 522 lines: 35 in: 13 Col: 19 Sel: 0 | 0 Windows (CR LF) UTF-8 OVR
Type here to search 19:10 07-04-2021
```



### 3. Create a webpage highlighting a proper scenario of using a prompt box.

Code:

```
<!DOCTYPE html>

<html>

<title>JavaScript Dialog Box</title>

<head></head>

<body>

<script language="javascript">

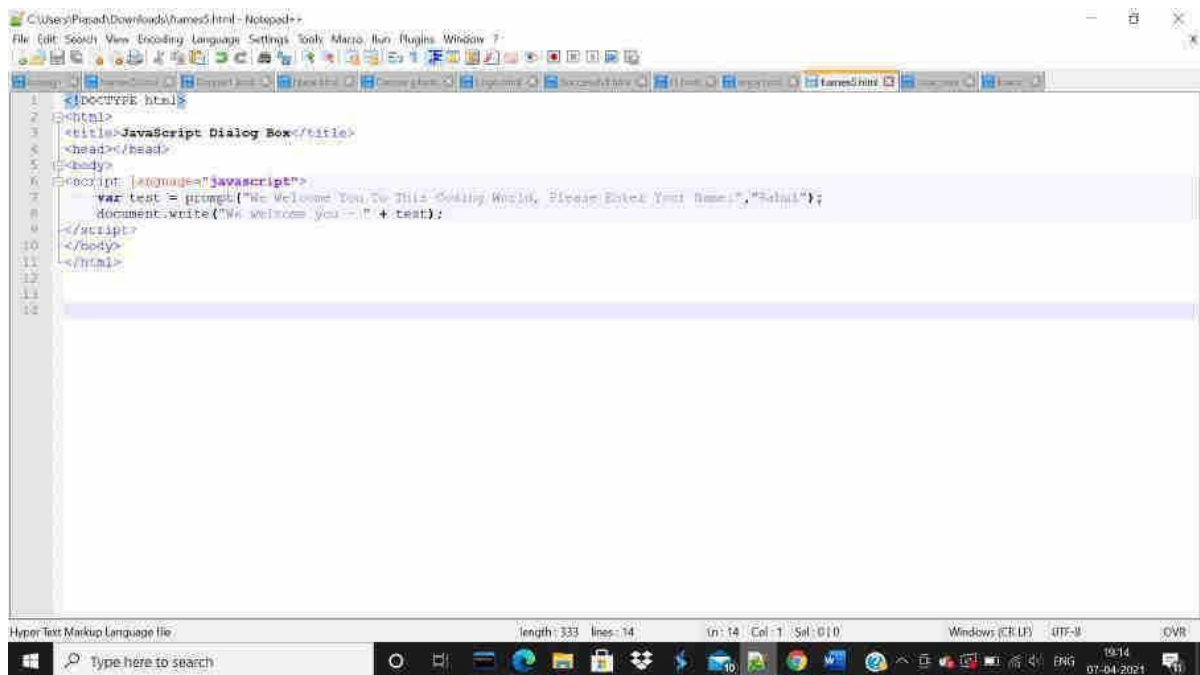
var test = prompt("We Welcome You To This Coding World, Please Enter Your
Name:","Rahul");

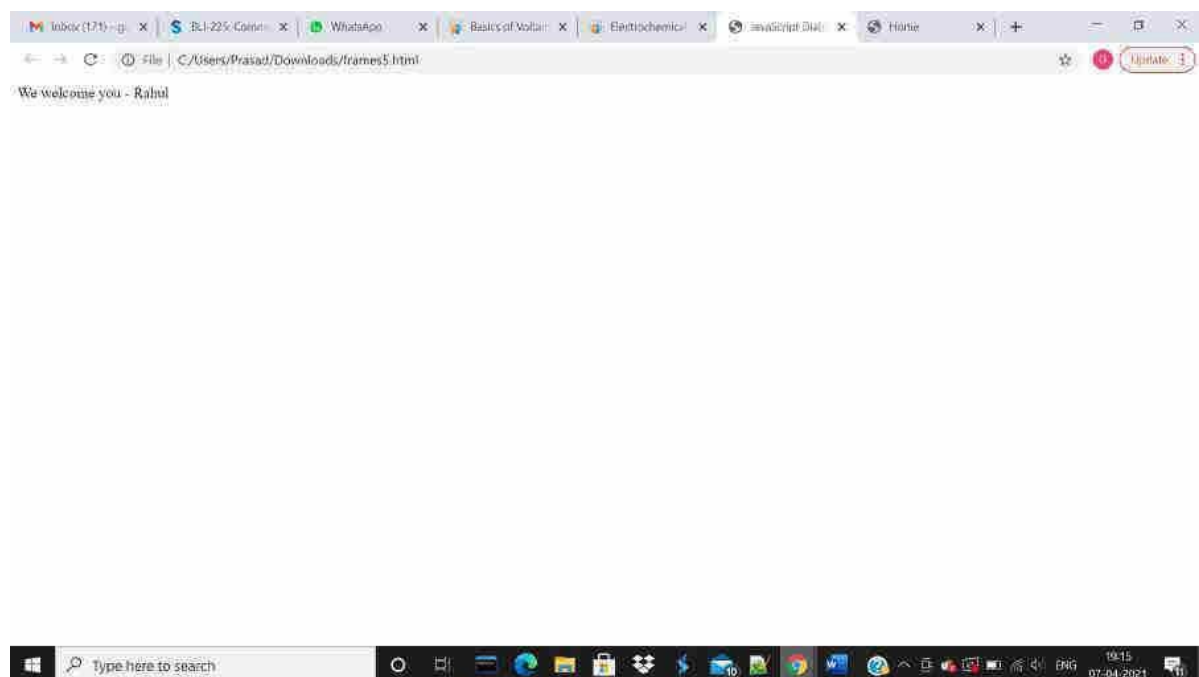
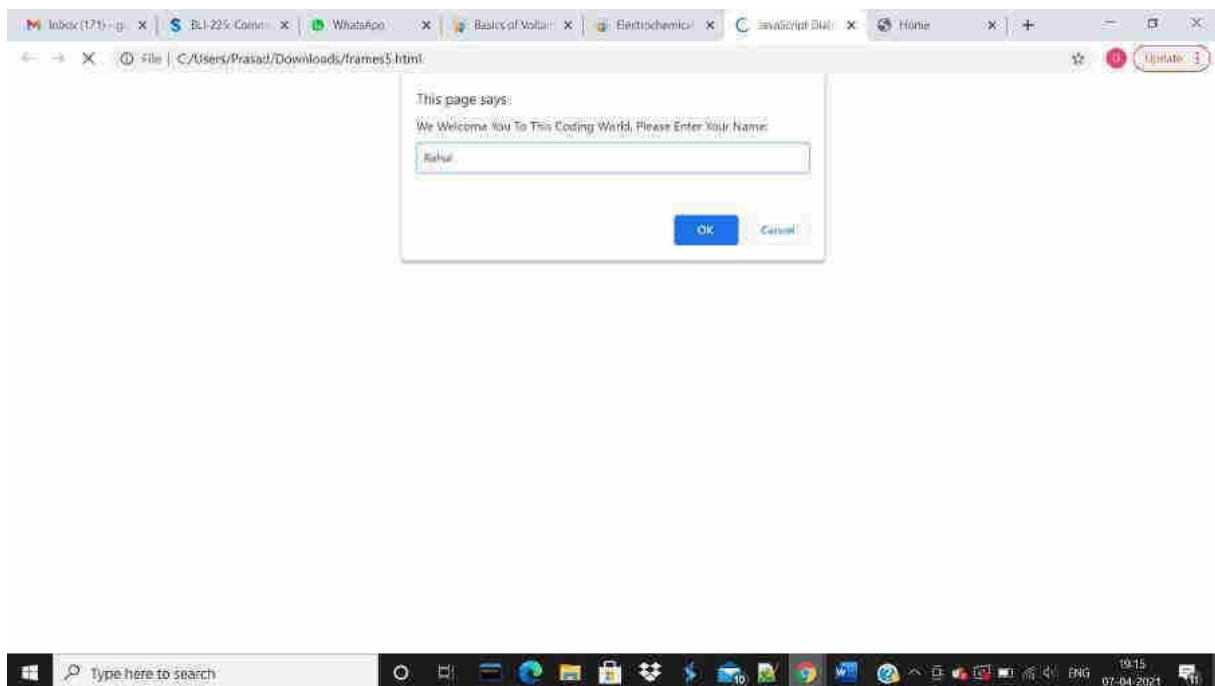
document.write("We welcome you - " + test);

</script>

</body>

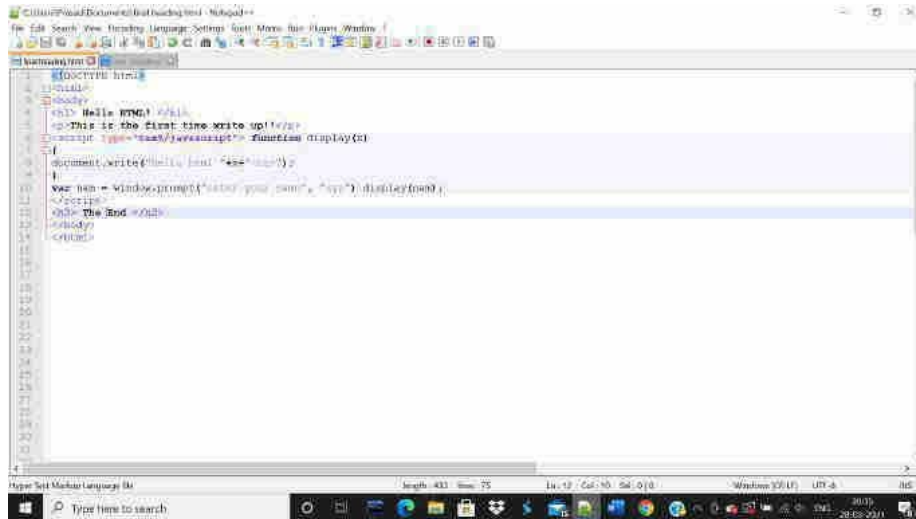
</html>
```



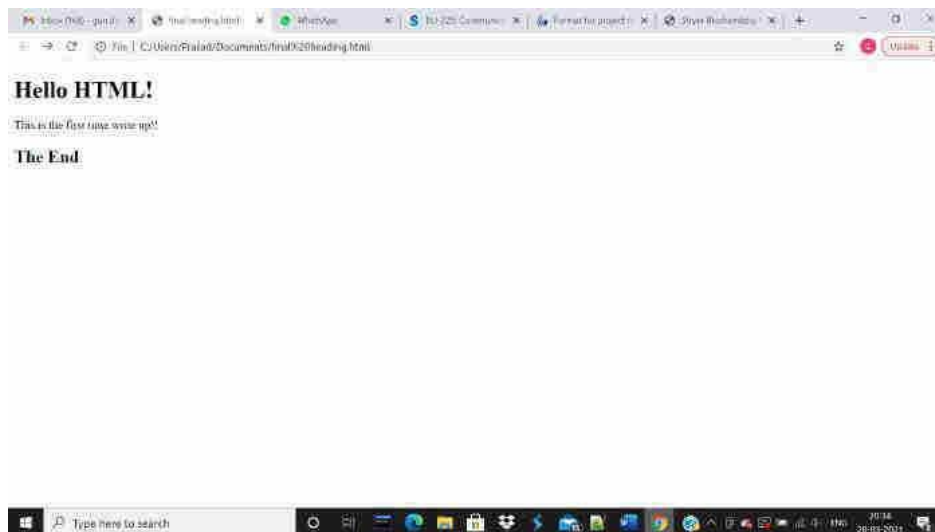


### 13. Working with JavaScript functions

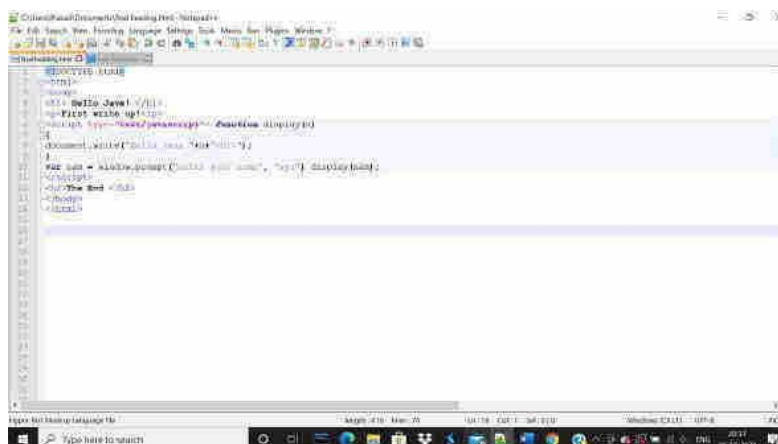
1. Create a webpage demonstrating different types of functions:
  - Without parameter, without return value



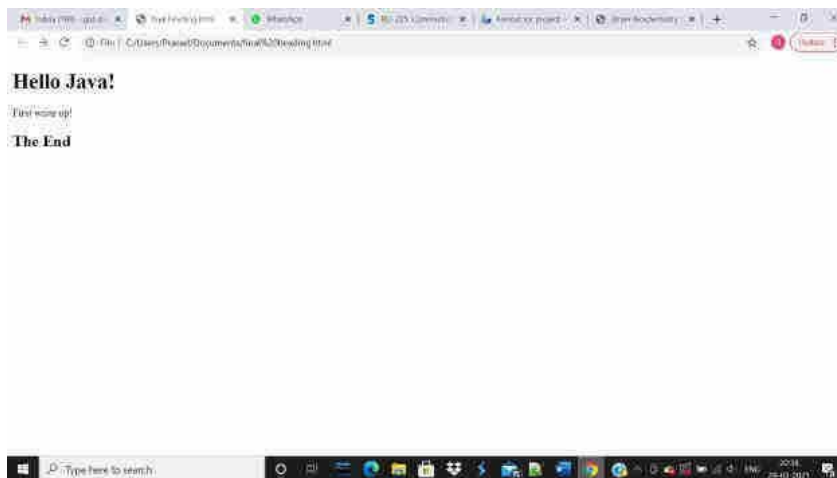
```
<!DOCTYPE html>
<html>
<head>
<title> Hello HTML! </title>
</head>
<body>
<p>This is the first time write up!</p>
<script type="text/javascript"> function display()
{
    document.write("Hello! I am " + "Ansh" + "!!");
}
var name = window.prompt("Enter your name", "Ansh"); display(name);
</script>
<p>The End </p>
</body>
</html>
```



- With parameter, without return value



```
<!--DOCTYPE html-->
<html>
<head>
<title> Hello HTML! </title>
</head>
<body>
<p>This is the first time write up!</p>
<script type="text/javascript"> function display()
{
    document.write("Hello! I am " + "Ansh" + "!!");
}
var name = window.prompt("Enter your name", "Ansh"); display(name);
</script>
<p>The End </p>
</body>
</html>
```



- With parameter, with return value

