

WEB DEVELOPMENT ETH

DIGITAL ASSIGNMENT – 2

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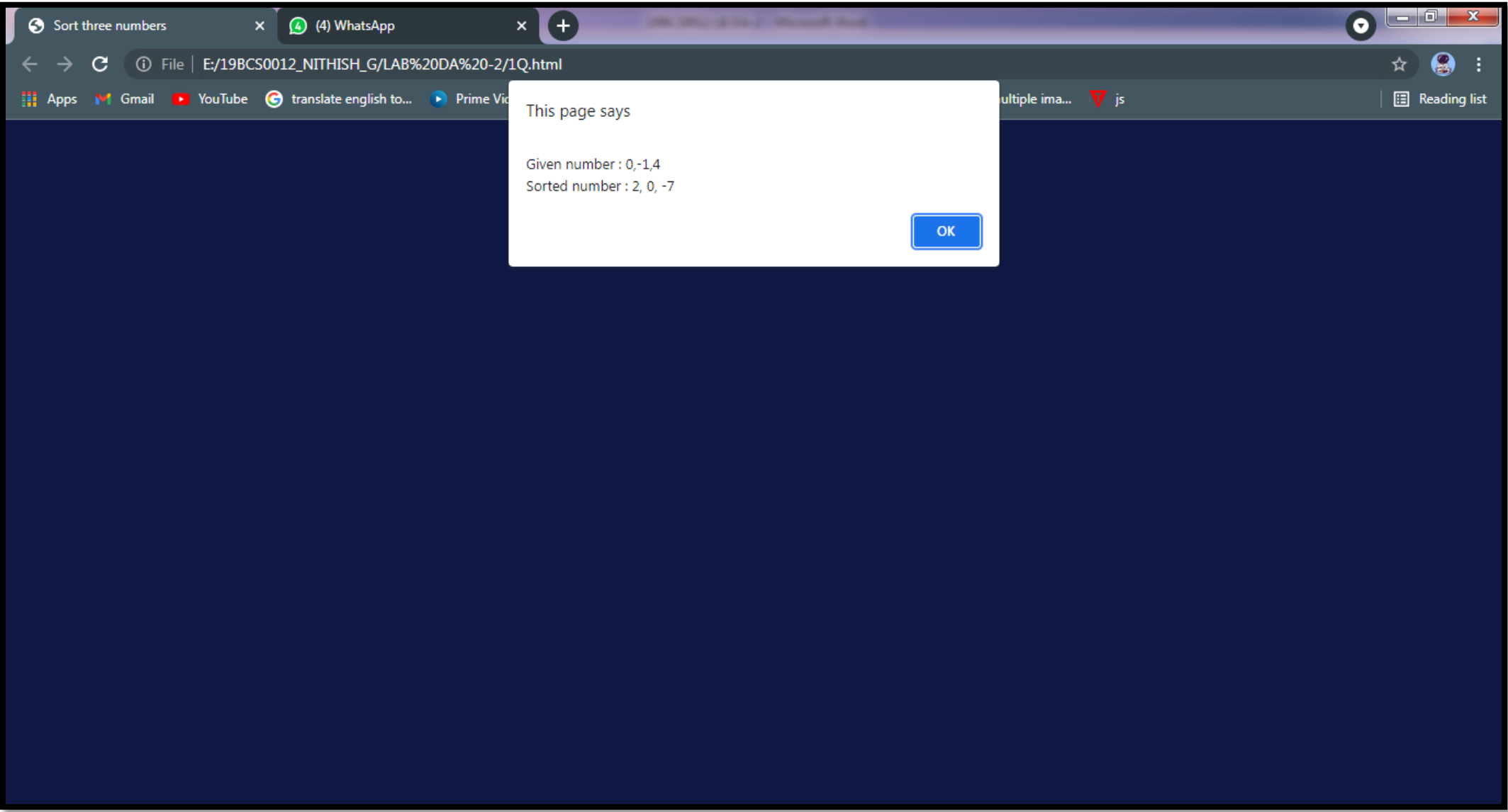
REG NO : 19BCS0012

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DATE : 3/10/2021

Question

1. Create a JavaScript conditional statement to sort three numbers. Display an alert box to show the result.
- Sample numbers: 0,-1, 4
- Output: 4, 0, -1



SOURCE CODE:

```
<!DOCTYPE HTML>

<html>

<head>
<title>Sort three numbers</title>
<script language="javascript">
function sort(){
var x= 2;
var y=-7;
var z= 0;
var temp=0;
if (x>y && x>z)
{
    if (y>z)
    {
        alert( "\nGiven number : 0,-1,4 \n" + "Sorted number : " + x + ", " + y + ", " + z);
    }
    else
    {
        temp = z;
        z=y;
        y=temp;
        alert("\nGiven number : 0,-1,4 \n" +  "Sorted number : " + x + ", " + y + ", " + z);
    }
}
else if (y>x && y >z)
{
    temp =x;
    x=y;
    y=temp;

    if (y<z)
    {
        temp = z;
        z=y;
        y=temp;
    }
    alert("\nGiven number : 0,-1,4 \n" +  "Sorted number : "+ x + ", " + y + ", " + z);
}
else if (z>x && z>y)
{
    temp = x;
    x=z;
    z=temp;

    if (z>y)
    {
        temp=y;
        y=z;
        z=temp;
    }
    alert("\nGiven number : 0,-1,4 \n" + "Sorted number : "+ x + ", " + y + ", " + z);
}
}
```

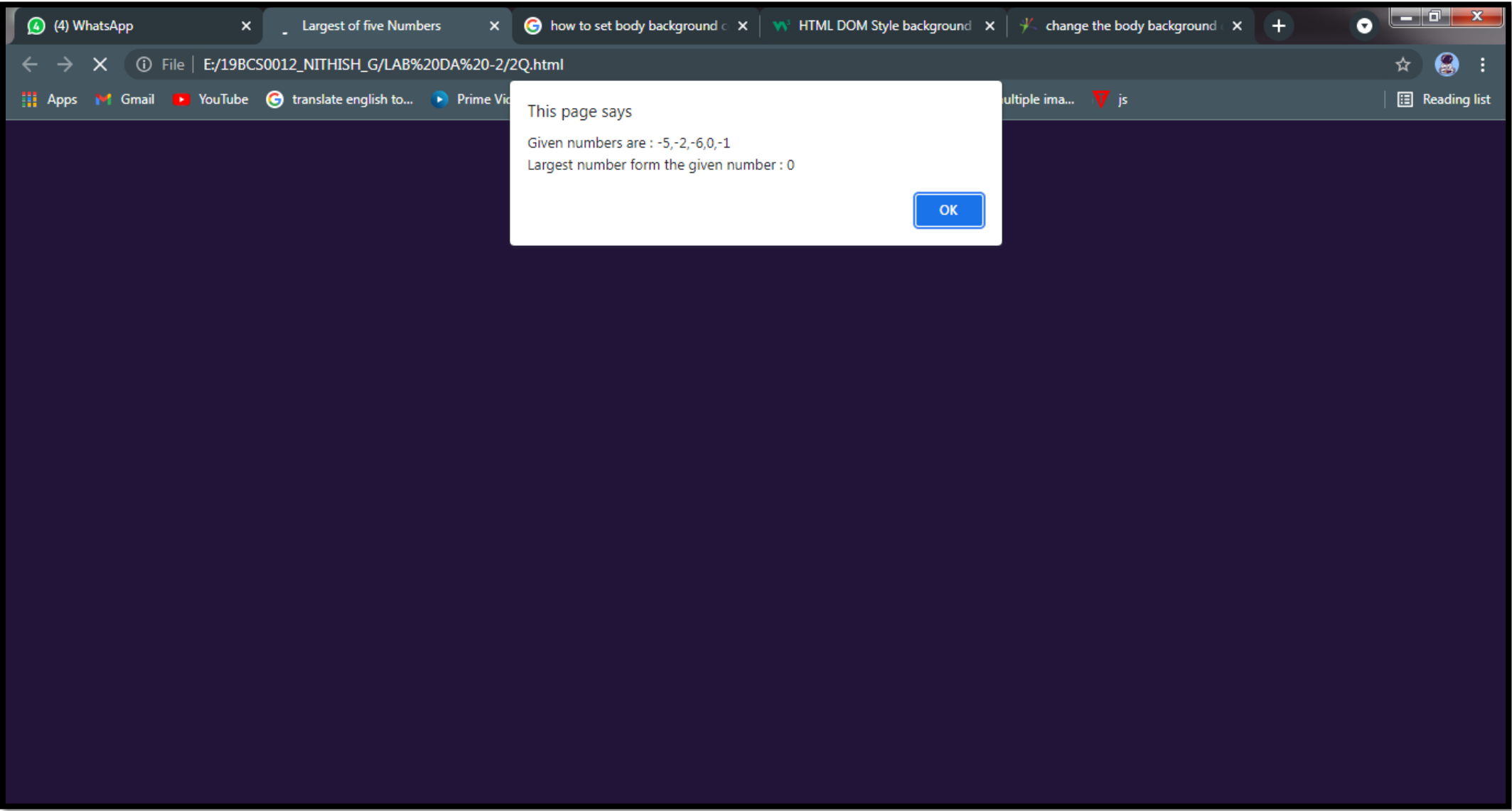
```
    }
    </script>
</head>

<body bgcolor="#0F1743" onload="sort();">
</body>

</html>
```

- 2. Create a JavaScript conditional statement to find the largest of five numbers. Display an alert box to show the result.
Sample numbers: -5, -2, -6, 0, -1
Output: 0

OUTPUT:



SOURCE CODE

```
<!DOCTYPE HTML>

<html>

<head>
  <title>Largest of five Numbers</title>
</head>

<body bgcolor="#221439">
<script language="javascript">

  var a =-5 , b= -2, c =-6 , d =0, e=-1;

  if(a> b && c && d && e)
  {
    alert("Given numbers are : -5,-2,-6,0,-1\nLargest number form the given number : "+a) ;
  }
  else if(b> a && c && d && e)
  {
    alert("Given numbers are : -5,-2,-6,0,-1\nLargest number form the given number : "+b) ;
  }

  else if(c> b && a && d && e)
  {
    alert("Given numbers are : -5,-2,-6,0,-1\nLargest number form the given number : "+c) ;
  }

  else if(d > b && c && a && e)
  {
    alert("Given numbers are : -5,-2,-6,0,-1\nLargest number form the given number : "+d) ;
  }

  else if(e> b && c && d && a)
  {
    alert("Given numbers are : -5,-2,-6,0,-1\nLargest number form the given number : "+e) ;
  }

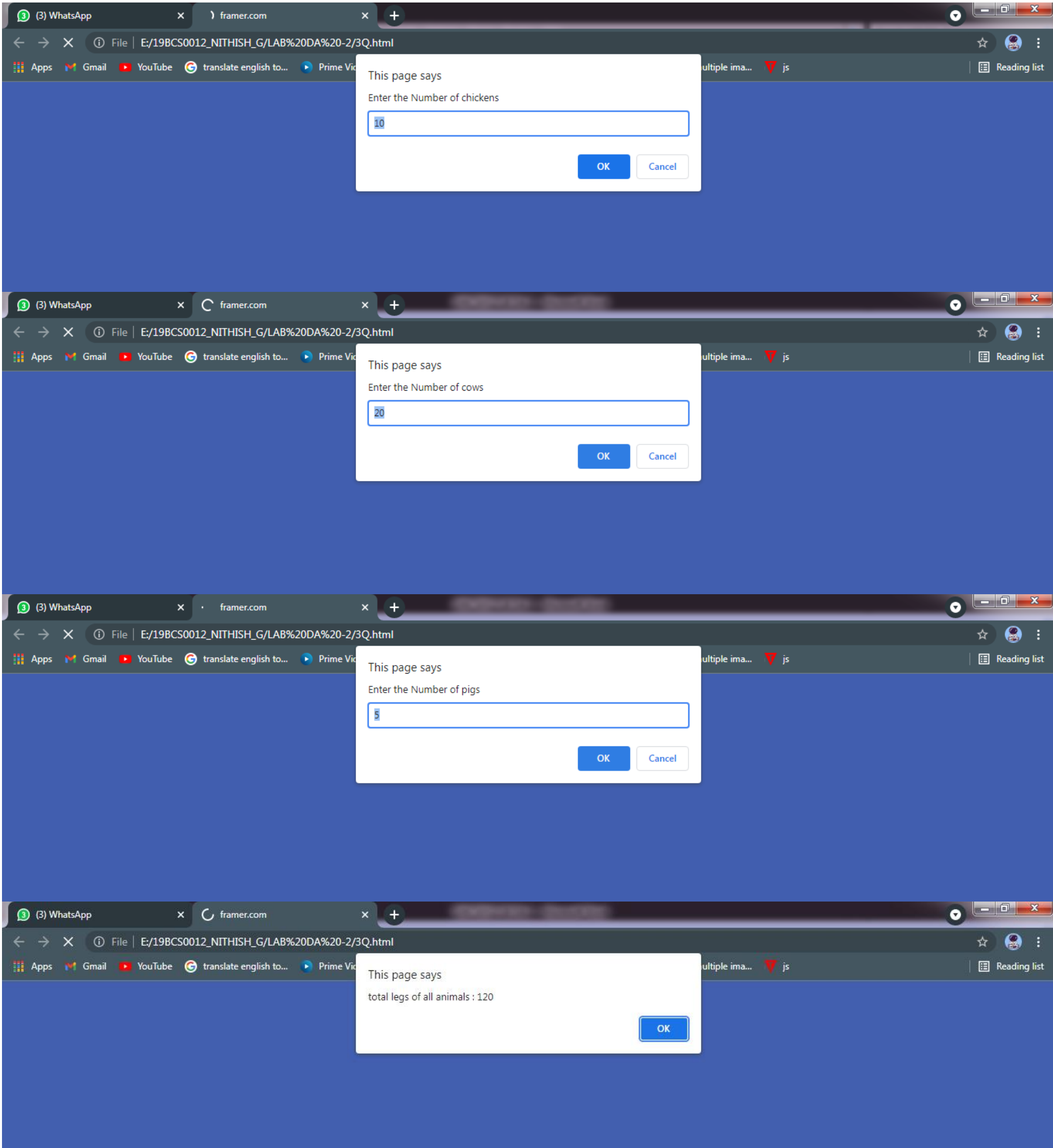
  </script>
</body>
```

</html>

3. A farmer is asking you to tell him how many legs can be counted among all his animals. The farmer breeds three species:
- chickens = 2 legs
 - cows=4 legs
 - pigs=4 legs

The farmer has counted his animals and he gives you a subtotal for each species. You have to implement a function that returns the total number of legs of all the animals. Create a Javascript function that takes three animal count numbers from the user using prompt box and returns the total number of legs of all the animals. Display an alert box to show the result.

OUTPUT



SOURCE CODE:

```
<!DOCTYPE HTML>

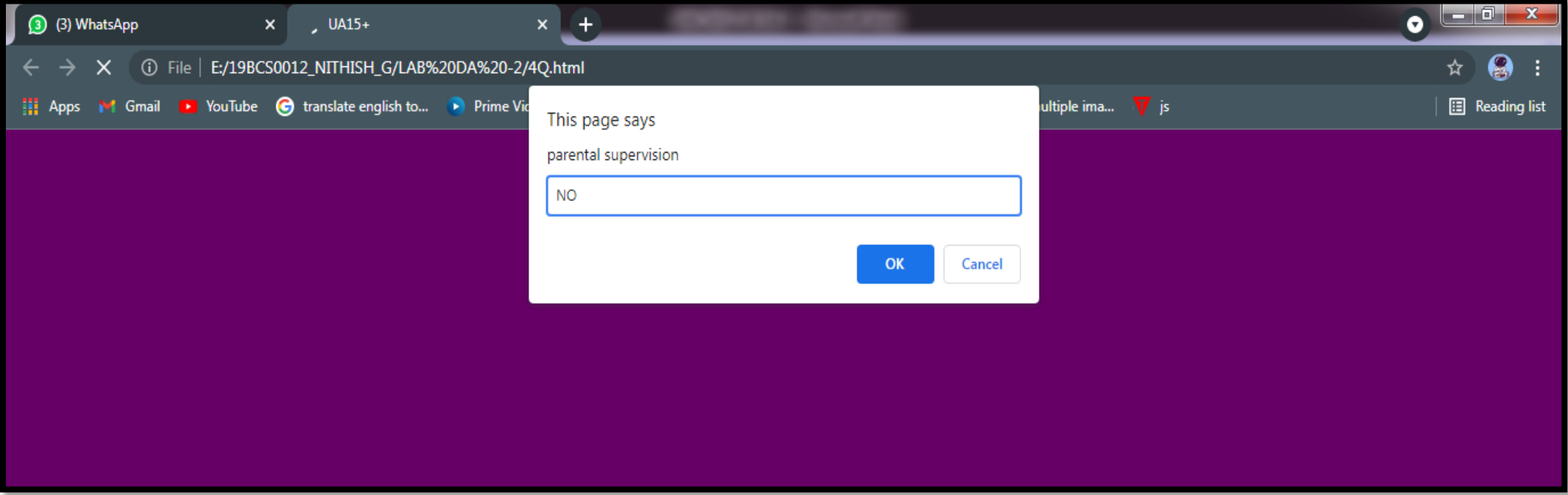
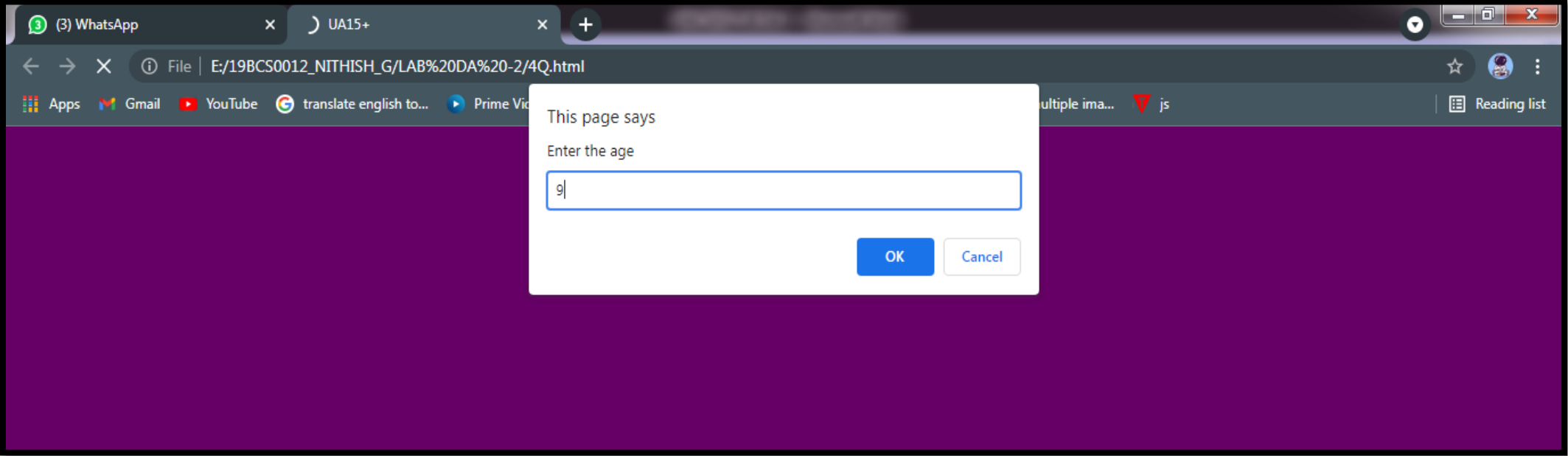
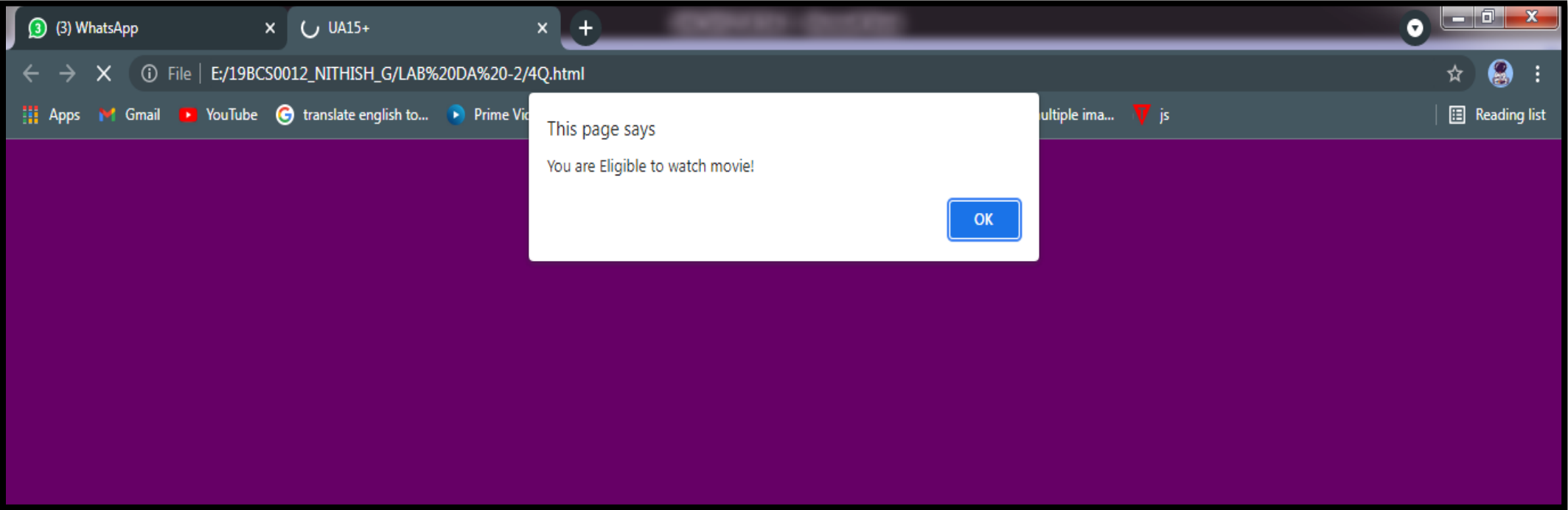
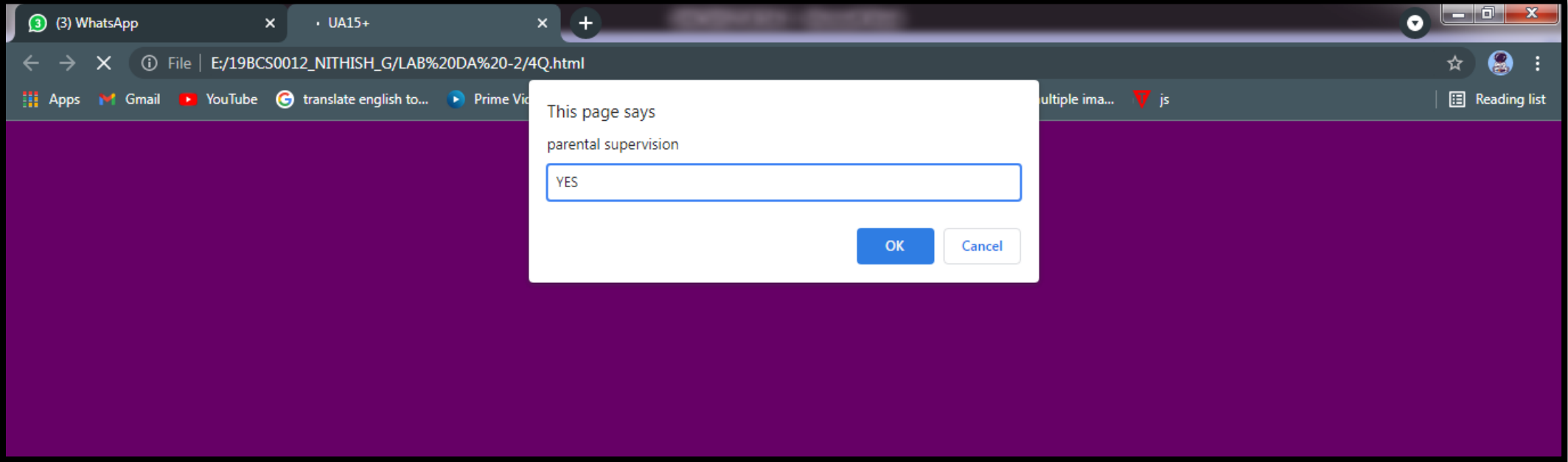
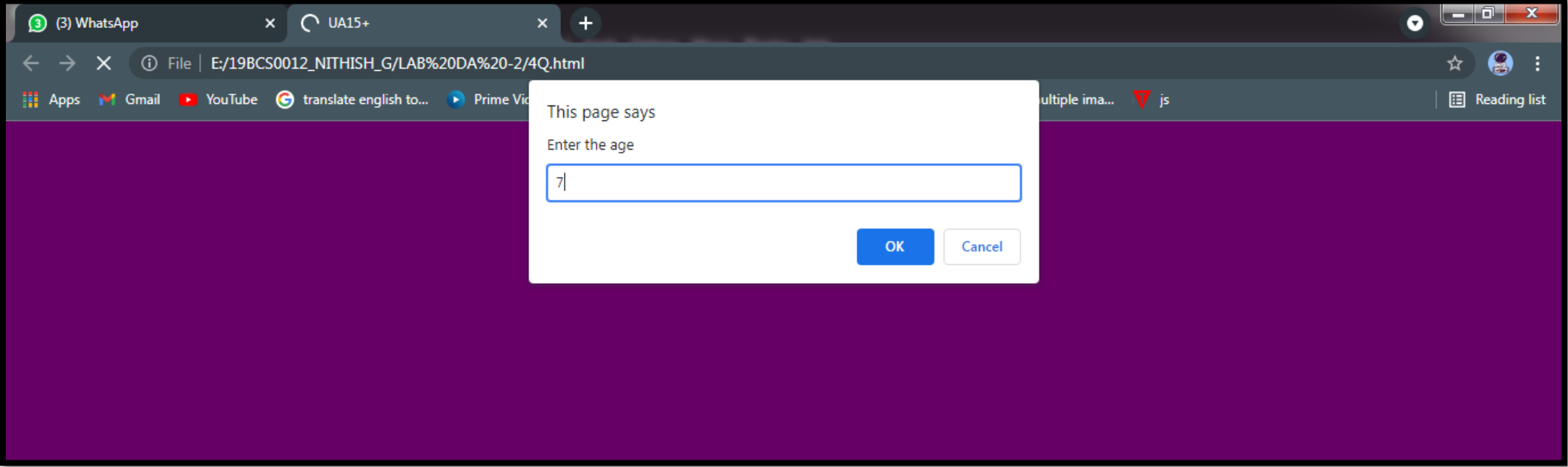
<html>
<head>
  <title>framer.com</title>
  <script language="javascript">
var chickens,cows,pigs;
  function subtotal(){
    chickens = parseInt( prompt("Enter the Number of chickens","10"));
    cows= parseInt( prompt("Enter the Number of cows","20"));
    pigs = parseInt( prompt("Enter the Number of pigs","5"));
    var tol = calculate(chickens ,cows, pigs);

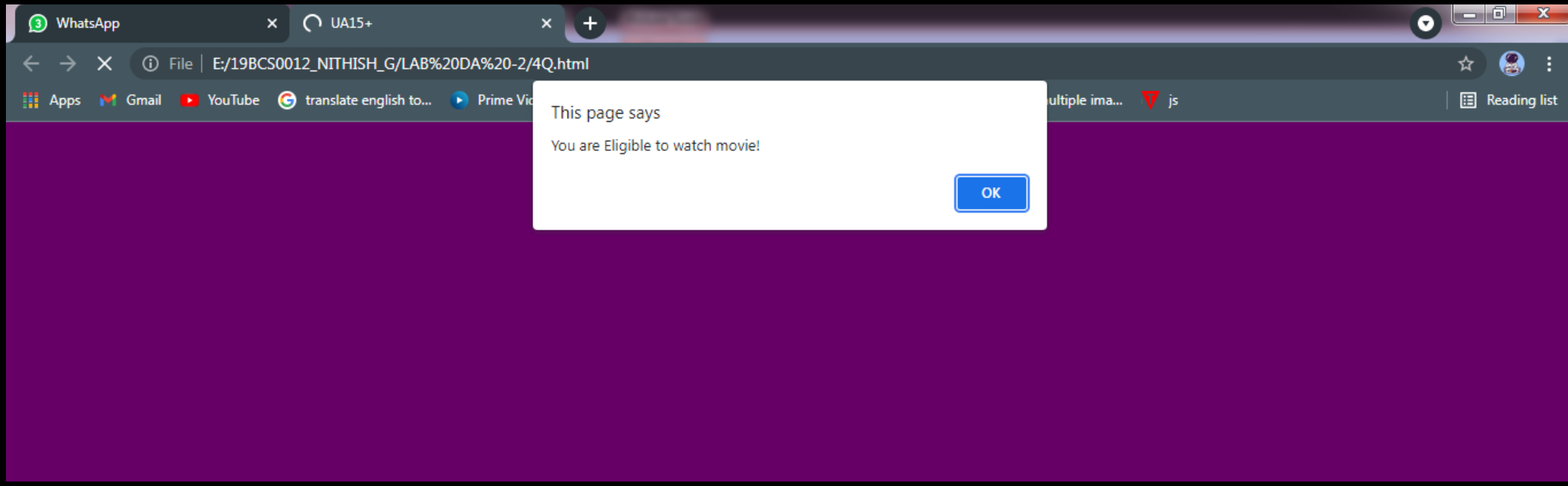
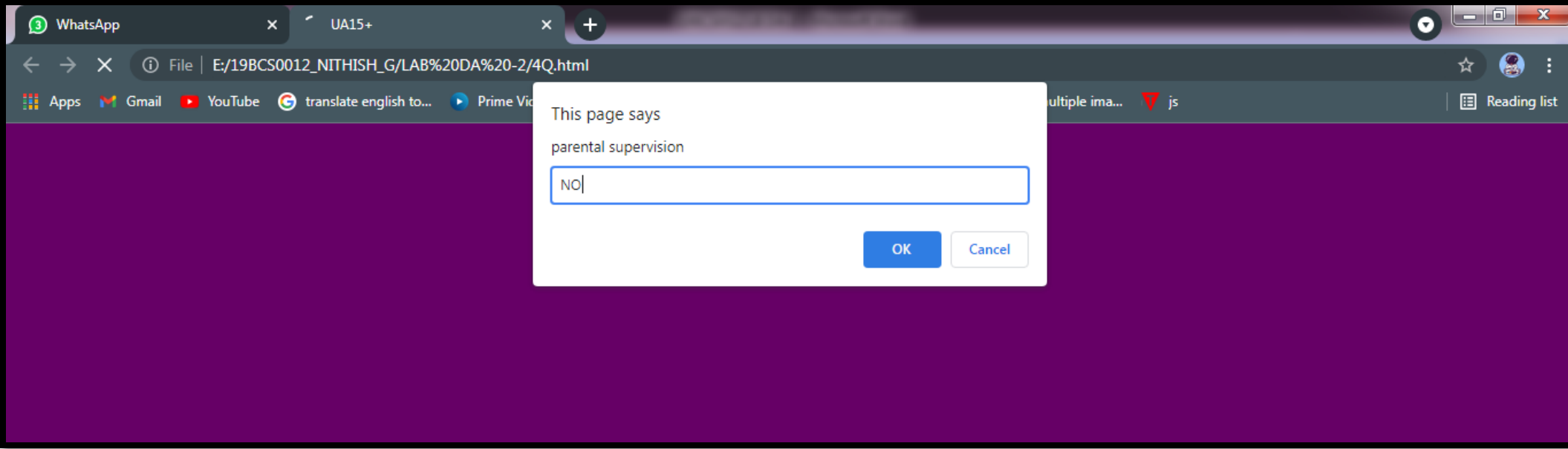
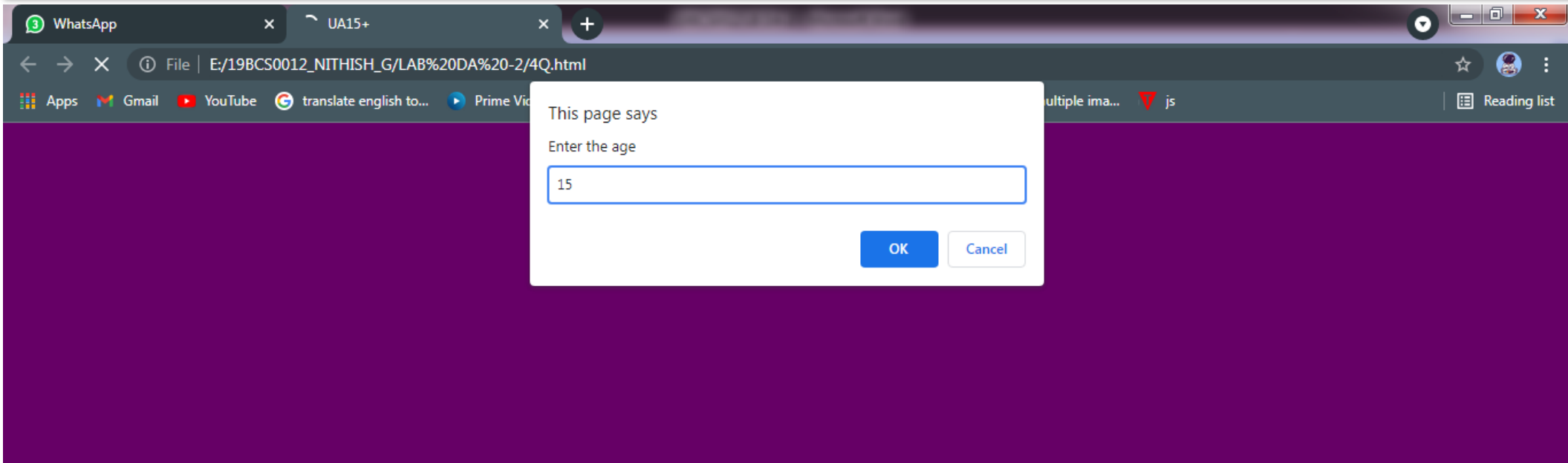
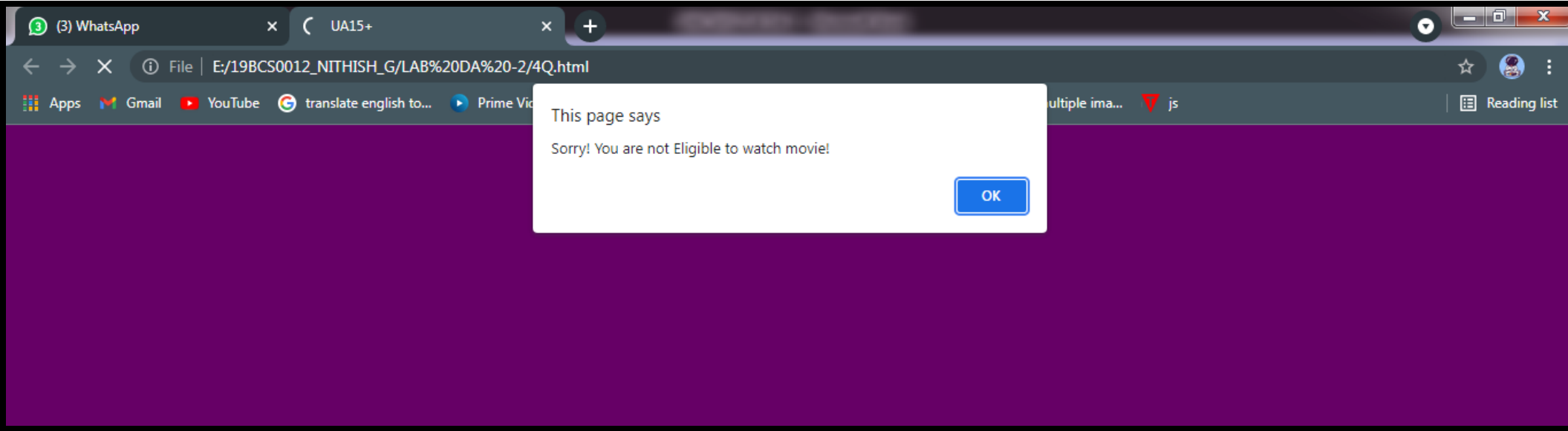
    alert('total legs of all animals : ' +tol);
  }

  function calculate(chickens ,cows, pigs)
  {
    return (chickens*2 + cows*4 + pigs*4 );
  }
  </script>
</head>
<body bgcolor="#415EAF" onload="subtotal()">
</body> </html>
```

4. Create a Javascript function that checks whether a person can watch a UA15+ rated movie. One of the following two conditions is required for admittance:
The person is at least 15 years old. They have parental supervision. The function accepts two parameters, age, and isSupervised. Return a boolean. Write a Javascript function that takes two parameters age and isSupervised from the user using a prompt box and displays the return from a function using an alert box.

OUTPUT





SOURCE CODE:

```
<!DOCTYPE HTML>

<html>

<head>
<title>UA15+</title>
<style type="text/css">
body{
    background-color:#660066;
}

</style>
<script language="javascript">

function cenima()
{
    var age;
    var supervision;
    age = parseInt(prompt("Enter the age","15"));
    supervision = prompt("parental supervision");
    supervision = supervision.toUpperCase();
    alert(supervision);
    var entry = permission(age , supervision);
    if(entry==true)
    {
        alert('You are Eligible to watch movie!');
    }
    else{ alert('Sorry! You are not Eligible to watch movie!');}
}
function permission(age, supervision)
{
```

```

    if(age>=15 || supervision=='YES')
    {
        return true;
    }
    else{
        return false;
    }

}

</script>
</head>

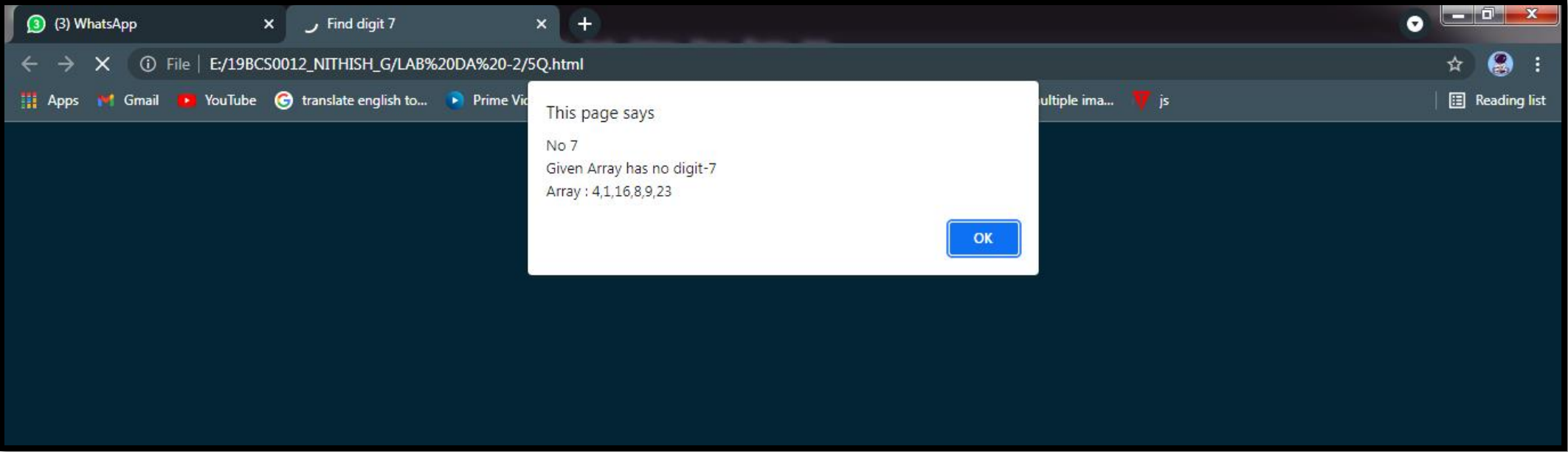
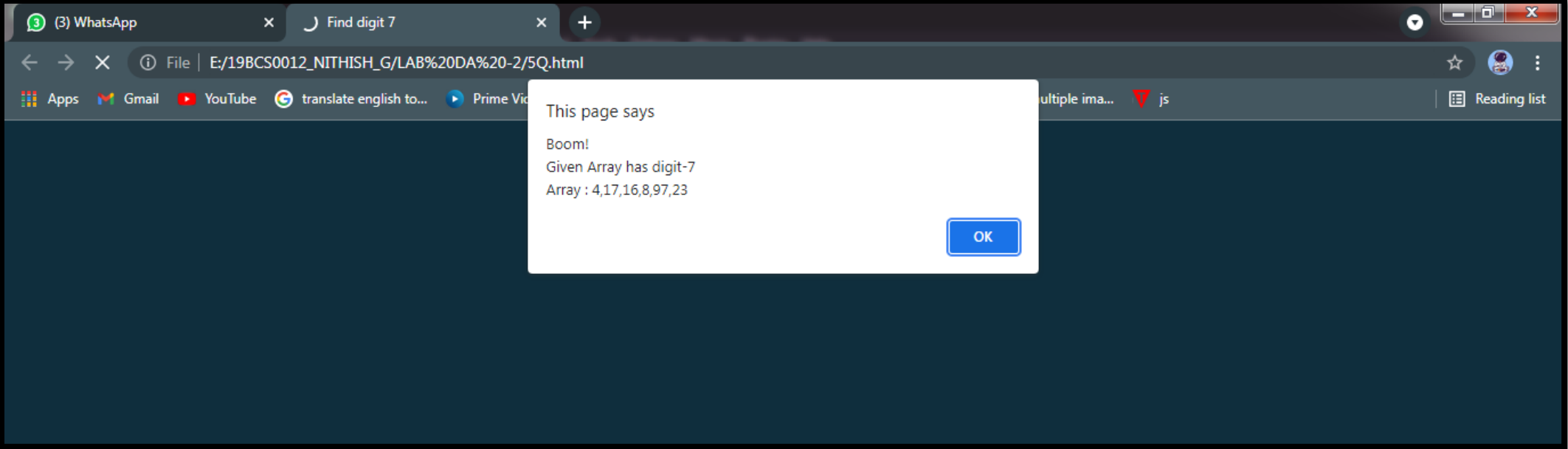
<body onload="cenima();">

</body>

</html>
```

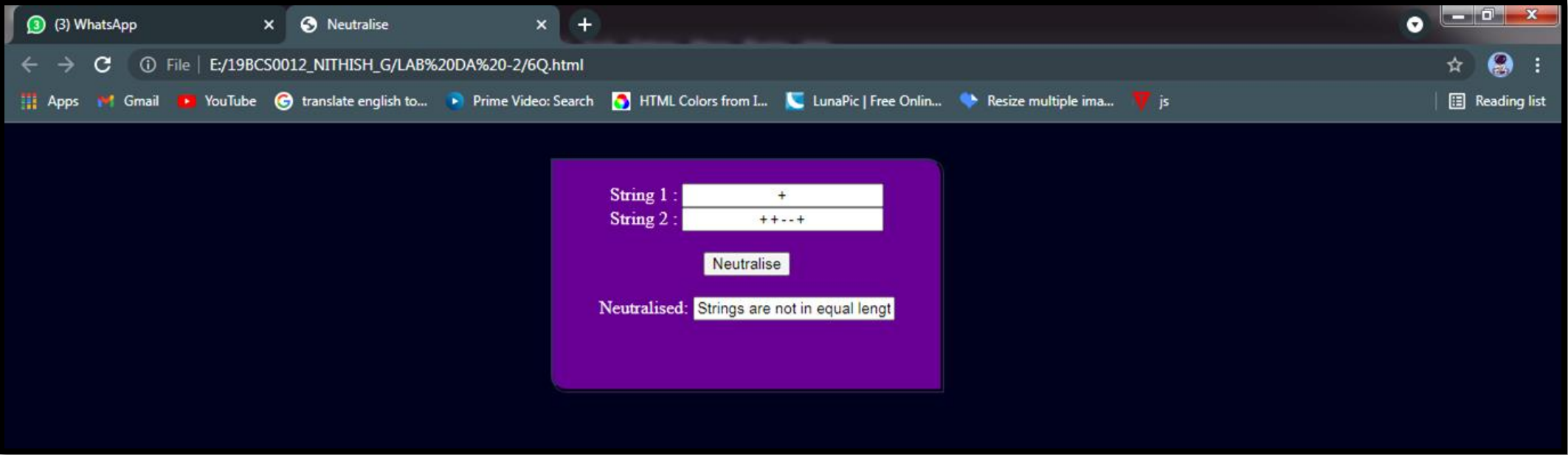
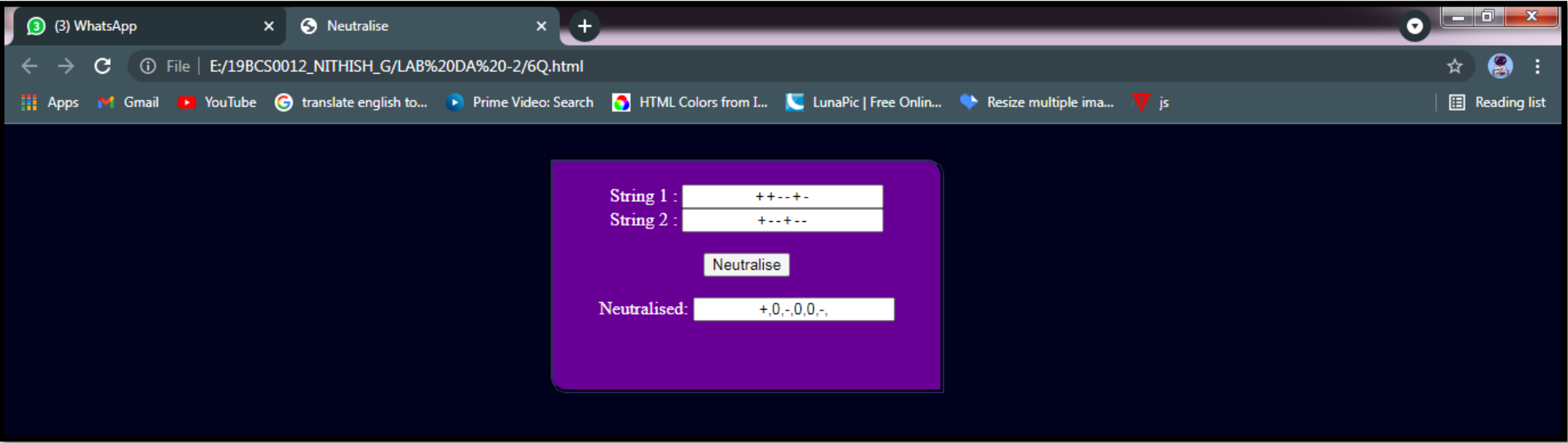
5. Create a Javascript function that takes an array of numbers and returns "Boom!" if the in the array. Otherwise, return "there is no 7 in the array". digit 7 appears Examples: sevenBoom([1, 2, 3, 4, 5, 6, 71) "Boom!" //7 contains the number seven. sevenBoom([8, 6, 33, 100])"there is no 7 in the Array" // None of the items contain 7 within them. sevenBoom([2, 55, 60, 97, 86]) "Boom!" //97 contains the number seven.

OUTPUT



6. Given two strings comprised of + and-, return a new string which shows how the interact in the following way
Compare the first characters of each string, then the next in turn.
"+" against a "+" returns another "+"
#against a "-" returns another "-" #"+" against "-" returns "0"
Return the string of characters. Examples

OUTPUT



Source code

```
<!DOCTYPE HTML>

<html>

<head>
  <title>Neutralise</title>
  <style type="text/css">
    .container{
      position: absolute;
      border : 3px groove #333366;
      border-bottom-left-radius: 15px;
      border-top-right-radius: 15px;
      left:35%;
      padding: 20px;
      width: 300px;
      height:160px;
      background-color: #6B0094;
      top:30px;
      color: white;
    }

  </style>
</head>

<body bgcolor="#070922">
  <script>
    function Neutralise(){
      var a = new String(document.getElementById('a').value);
      var b = document.getElementById('b').value;
      var c="";
      var i =0 ;

      if(a.length==b.length){

        for( i =0 ; i<a.length;i++)
        {
          if((a.charAt(i)=="+") && (b.charAt(i)=="+"))
          {
            c = c.concat("+,");
          }
          else if(a.charAt(i)== "+" && b.charAt(i)== "-")
          {
            c=c.concat("0,");
          }
          else if(a.charAt(i)== "-" && b.charAt(i)== "+")
          {
            c=c.concat("0,");
          }
          else if(a.charAt(i)== "-" && b.charAt(i)== "-")
          {
            c=c.concat("-",);
          }

        }

        alert(c);
        document.getElementById('c').value=c;
      }
      else{
        alert('Strings are not in equal length.')
        document.getElementById('c').value='Strings are not in equal length';
      }

    }

  </script>

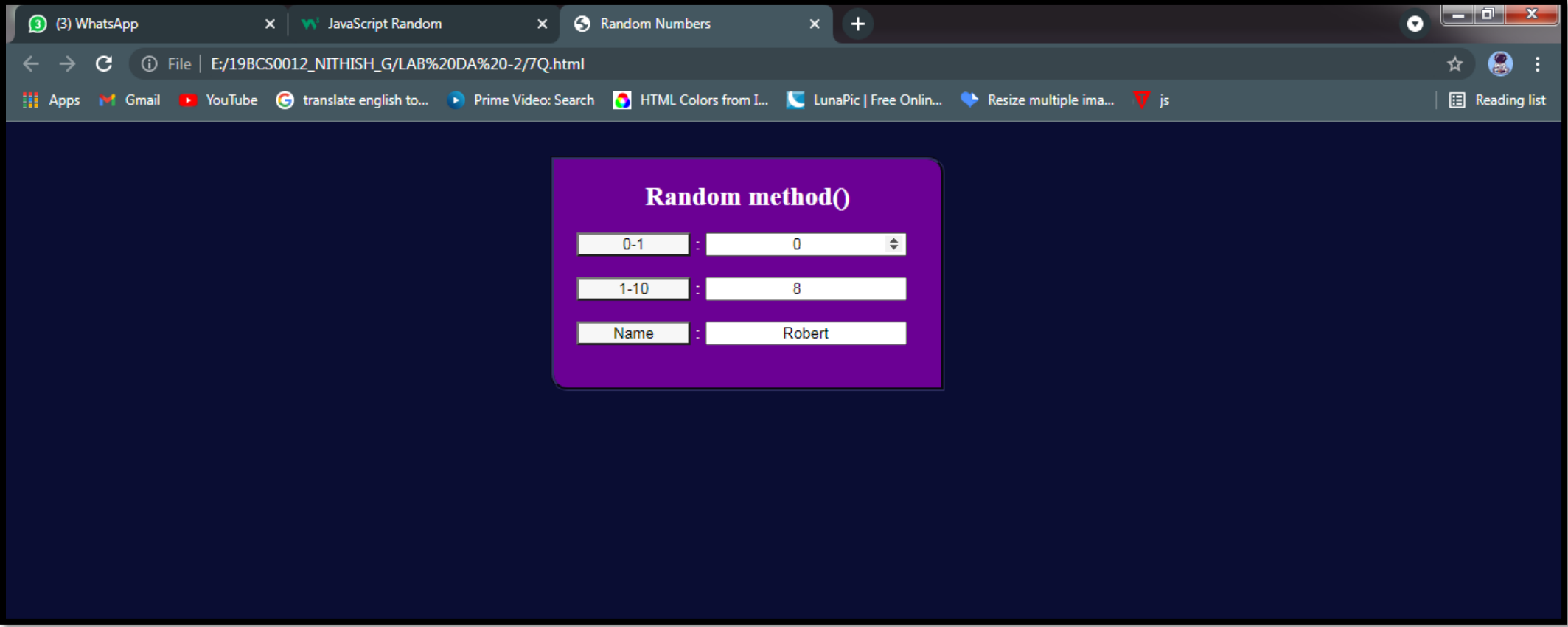
  <div class="container">
    <center>
      String 1 : <input style=" text-align: center; letter-spacing: 2px;" type="text" id="a"> <br>
      String 2 : <input style=" text-align: center; letter-spacing: 2px;" type="text" id="b">      <br>      <br>
      <button onclick="Neutralise()">Neutralise</button>      <br>      <br>
      Neutralised: <input style=" text-align: center;" id='c' value="" type="text" />
    </center>
  </div>

</body>

</html>
```

- 7. Create the JavaScript functions to get a random value and display it.
 - a) Between 0 to 1
 - b) Between 1 to 100
 - c) Random names from an array.

OUTPUT



Source code

```
<!DOCTYPE HTML>
```

```
<html>
```

<head>

<title>Random Numbers</title>

```
<style type="text/css">
```

```
.container{
    position: absolute;
    border : 3px groove #333366;
    border-bottom-left-radius: 15px;
    border-top-right-radius: 15px;
    left:35%;
    padding: 20px;
    width: 300px;
    height:160px;
    background-color: #6B0094;
    top:30px;
    color: white;
```

```
}
.container button{
    width: 100px;
    background-color: #F7F7F7;
```

```
.container input{
    text-align: center;
}
```

</style>

```
<script language="javascript">
```

```
function random(a)
{
    var array = new Array;
    array.push('Nithish','Jack','Robert','Calvin');

    if(a==0)
    {
        document.getElementById('c').value=(array[Math.floor(Math.random() * array.length)]);
    }
    else if(a==1)
    {
        document.getElementById('a').value= Math.floor(Math.random() * a);
    }
    else
    {
        document.getElementById('b').value= Math.floor(Math.random() * a);
    }
}
```

</script>

</head>

```
<body bgcolor="#0A0D33">
  <div class="container">
    <center><b><span style="font-size: 23px">Random method()</span></b></center> <br>
    <button onclick="random(1)">0-1 </button> :
    <input id="a" type="number" /> <br><br>
    <button onclick="random(10)">1-10 </button> :
    <input id="b" type="number" />
    <br><br>
    <button onclick="random(0)">Name </button> :
    <input id="c" type="text" />
  </div>
```

</body>

</html>

8. Develop a JavaScript program to get a date before and after 1 year compares to the current date.

Current Date: Tue Jun 20 17:21:52 IST 2017

Date before 1 year: Mon Jun 20 17:21:52 IST 2016

Date after 1 year: web Jun 20 17:21:52 IST 2018

Sample output:

```
<!DOCTYPE HTML>
```

```
<html>
```

<head>

```
<title>Date manipulation</title>
```

```
<style type="text/css">
```

```
.container{
position: absolute;
border : 3px groove #F8F8FC;
border-bottom-left-radius: 15px;
border-top-right-radius: 15px;
left:22%;
padding: 20px;
font-family: "Trebuchet MS", Helvetica, sans-serif;
font-size: 20px;
height:160px;
background-color: #6B0094;
top:30px;
color: white;
```

</style>

</head>

```
<body bgcolor="#2E1849">
```

```
<div class="container">
```

<p id="current"></p>

<p id="before"></p>

<p id="after"></p>

</div>

```
<script>
```

[illegible]

```
const d = new Date();
```



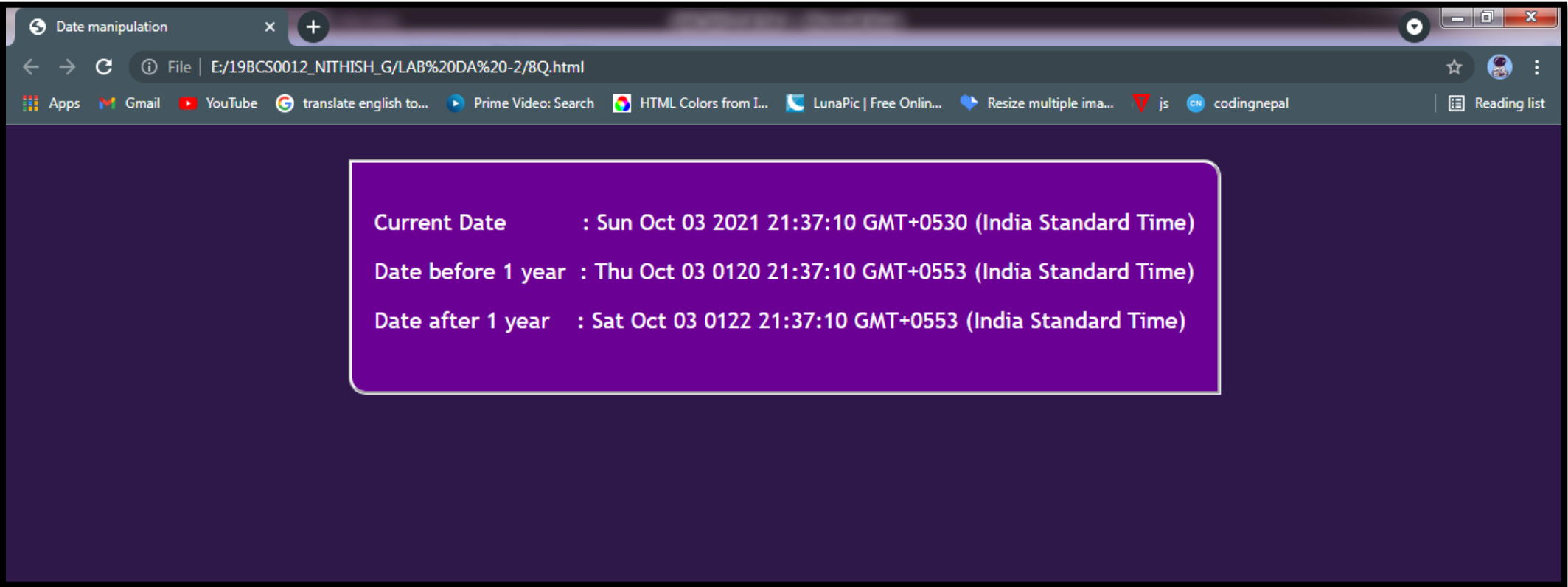
```
d.setFullYear(c.getFullYear()-1)
document.getElementById("before").innerHTML = 'Date before 1 year &nbsp;  : ' +d;

const e = new Date();
e.setFullYear(c.getFullYear()+1);
document.getElementById("after").innerHTML = 'Date after 1 year &nbsp;  &nbsp;  &nbsp;  : ' + e;
</script>

</body>

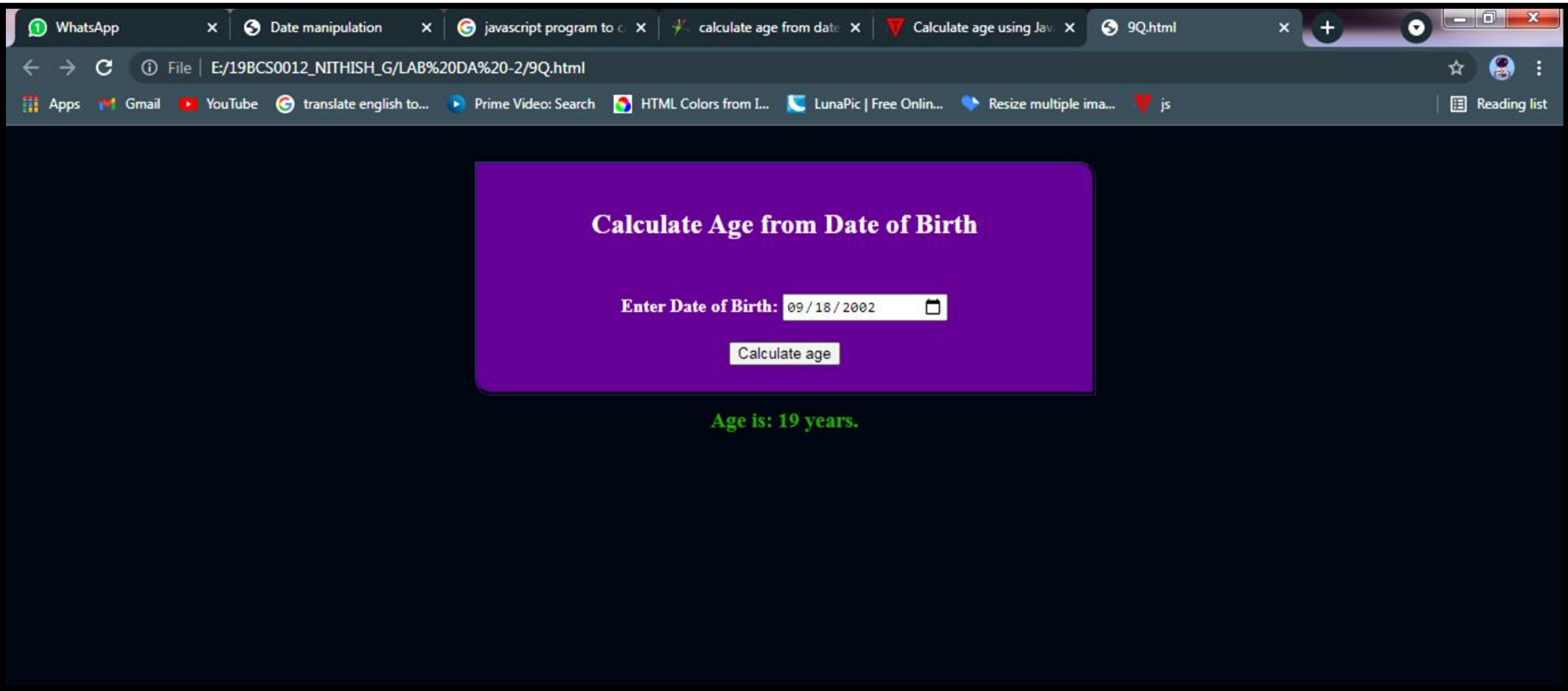
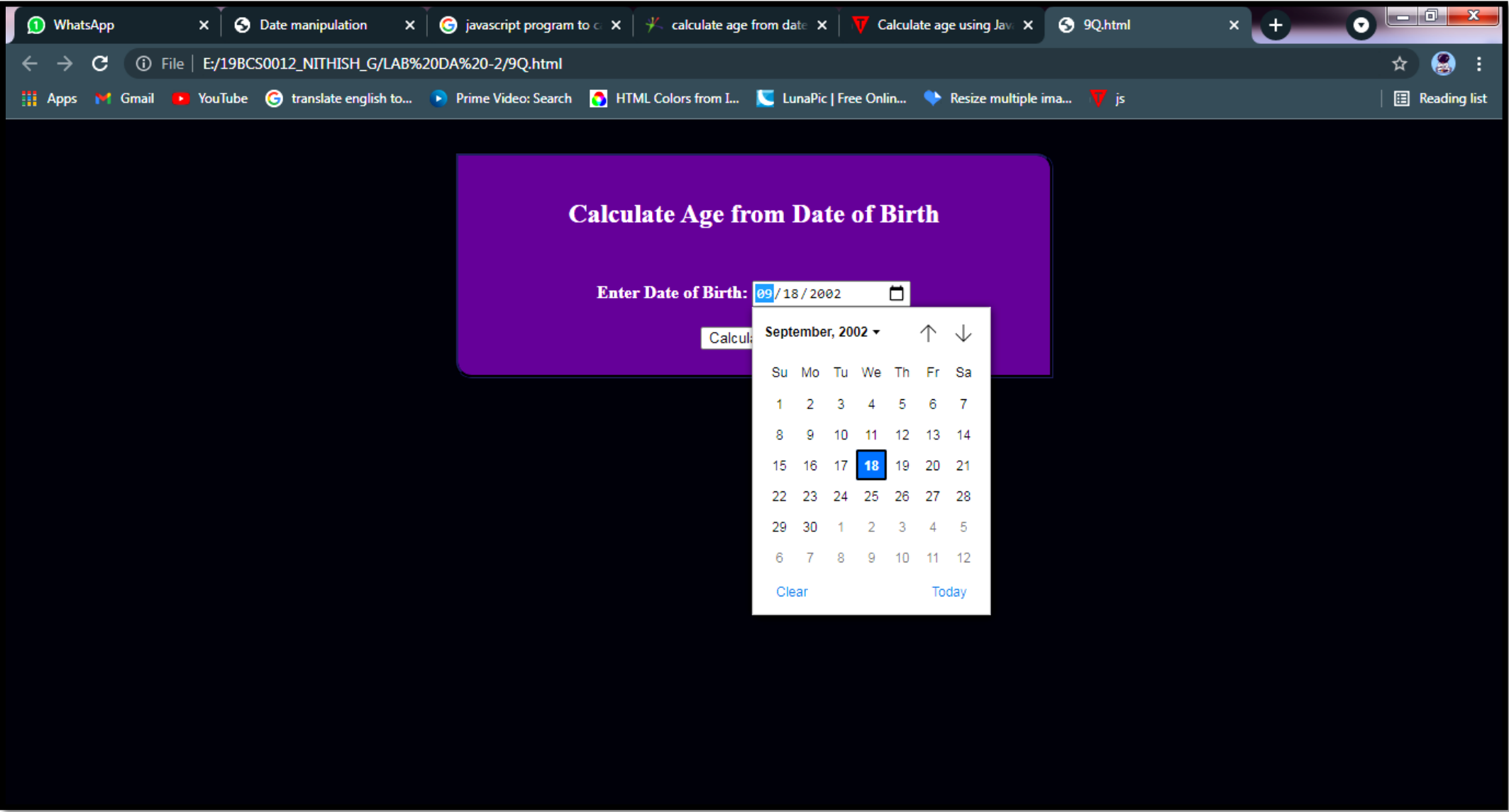
</html>
```

OUTPUT



9. Develop JavaScript program to calculate your age.

OUTPUT



Source code

```
<html>
<head>
  <style type="text/css">
    .container{
      position: absolute;
      border : 3px groove #333366;
      border-bottom-left-radius: 15px;
      border-top-right-radius: 15px;
      left:30%;
      padding: 20px;
      width: 500px;
      height:160px;
      background-color: #6B0094;
      top:30px;
      color: white;
    }

  </style>
</script>
function ageCalculator() {
  var userInput = document.getElementById("DOB").value;
  var dob = new Date(userinput);
  if(userinput==null || userinput=='') {
    document.getElementById("message").innerHTML = "***Choose a date please!";
    return false;
  } else {

    var month_diff = Date.now() - dob.getTime();

    var age_dt = new Date(month_diff);

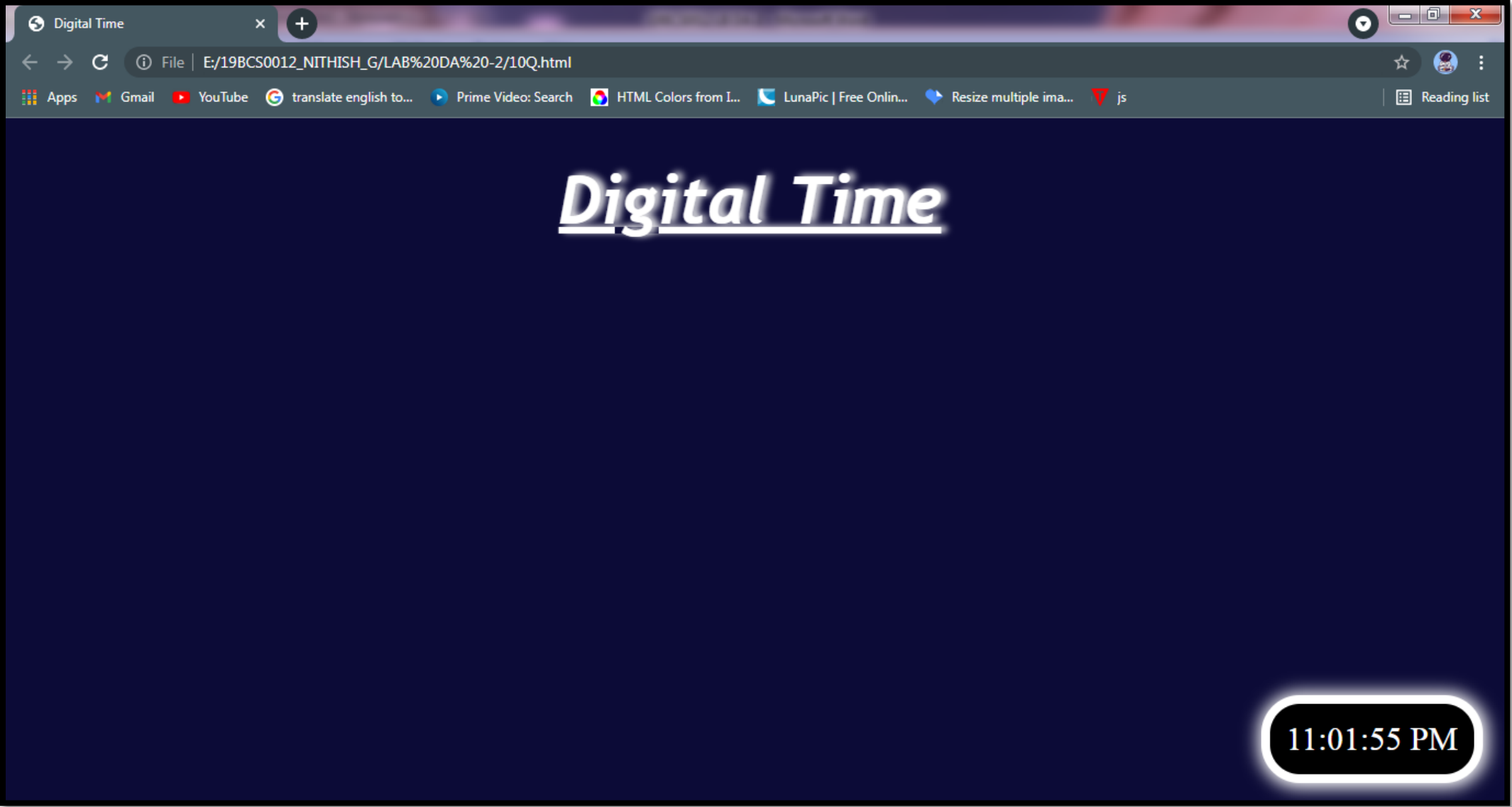
    var year = age_dt.getUTCFullYear();

    var age = Math.abs(year - 1970);

    return document.getElementById("result").innerHTML =
      "Age is: " + age + " years. ";
  }
}
</script>
</head>
<body bgcolor="#0E1621">
<div class="container">
<center>
<h2 style="color: #FFFFFF" align="center"> Calculate Age from Date of Birth <br> <br> </h2>
<b> Enter Date of Birth: <input type=date id = DOB> </b>
<span id = "message" style="color:red"> </span> <br><br>
<button type="submit" onclick = "ageCalculator()"> Calculate age </button> <br><br>
<h3 style="color:32A80F" id="result" align="center"></h3>
</center>
</div>
</body>
</html>
```

10.Design a web page displays a digital clock on the rightmost end.

Output



SOURCE CODE:

```
<!DOCTYPE html>
<html>
<head>
  <title>Digital Time</title>
  <style type="text/css">
body{
  padding: 0px;
  margin: 0px;
  background-color: #0C0B37;
}

.heding{
  position: relative;
  top: 0;
  left: 35%;
  height: 70px;
  width: 400px;
  text-align: center;
  color:#FFFFFF;
  font-family: 'Trebuchet MS', Helvetica, sans-serif;
  font-style: italic;
  text-shadow: 5px -1px 6px #EDEDED;
  font-size:30px;
  margin-top:10px;
  text-decoration: underline;
}

.time-box{
  position : absolute;
  bottom: 20px;
  right: 20px;
  border: 8px solid white;
  padding: 15px;
  font-size: 30px;
  border-radius: 35px;
  color: white;
  background-color:#000000;
  box-shadow: 1px 1px 15px 4px #FFFFFF;

}

</style>
</head>
<body onload="startTime()" >

<div class="heding">
  <h1>Digital Time</h1>
</div>

<div class="time-box">
<div id="time"></div>
</div>
<script>

function startTime() {
  const today = new Date();
  let h = today.getHours();
  let m = today.getMinutes();
  let s = today.getSeconds();
  m = checkTime(m);
  s = checkTime(s);
  let meridiem="AM";

  if(h>12)
  {
    h-=12;
    meridiem="PM";
  }

  document.getElementById('time').innerHTML=h + ":" + m + ":" + s +" " +meridiem ;
  setTimeout(startTime, 1000);
}

function checkTime(i) {
  if (i < 10) {i = "0" + i};  // add zero in front of numbers < 10
  return i;
}
</script>

</body>
</html>
```

Thank You Mam!