



VIT[®]

Vellore Institute of Technology

(Deemed to be University under section 3 of UGC Act, 1956)

CSE 3002

INTERNET AND WEB PROGRAMMING LAB

LAB ASSIGNMENT 3

Submitted to Prof. Senthil Kumar N

Topic: JAVASCRIPT

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SLOT: L55+L56

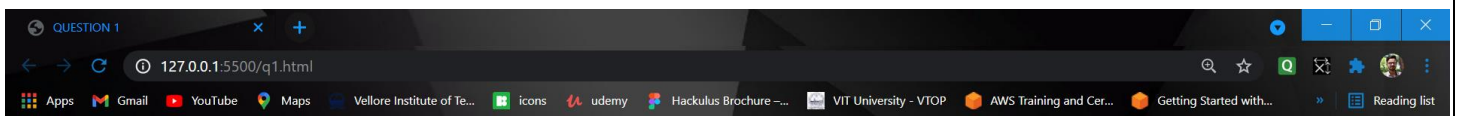
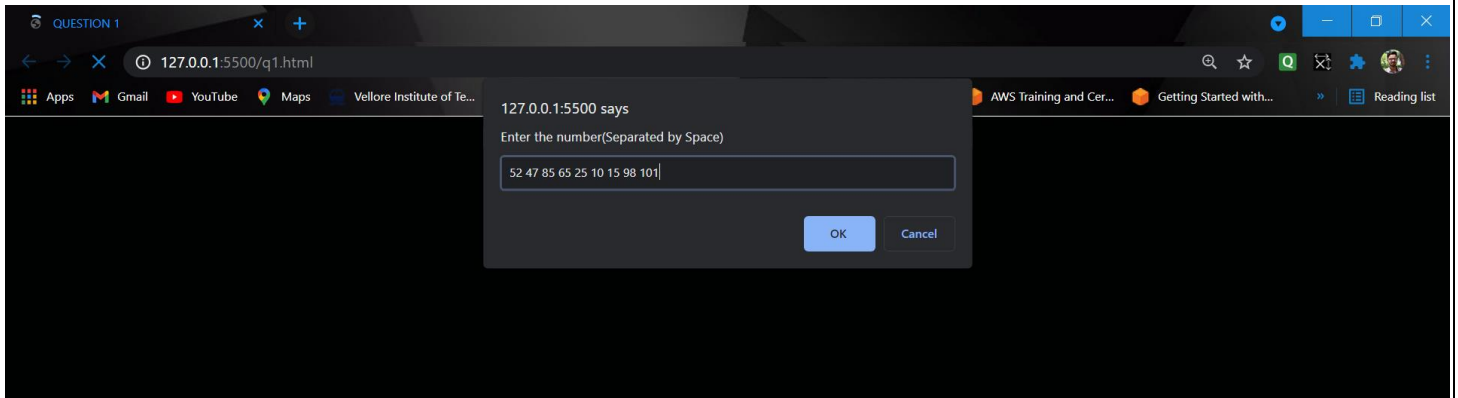
DATE: 17/04/2021

1.

CODE:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>QUESTION 1</title>
</head>
<body>
  <script>
    var a = prompt("Enter the number(Separated by Space)").split(' ').map((
a)=>{return parseInt(a);});
    document.write("Largest Number = "+Math.max(...a));
  </script>
</body>
</html>
```

OUTPUT:



Largest Number = 101

2.

CODE:

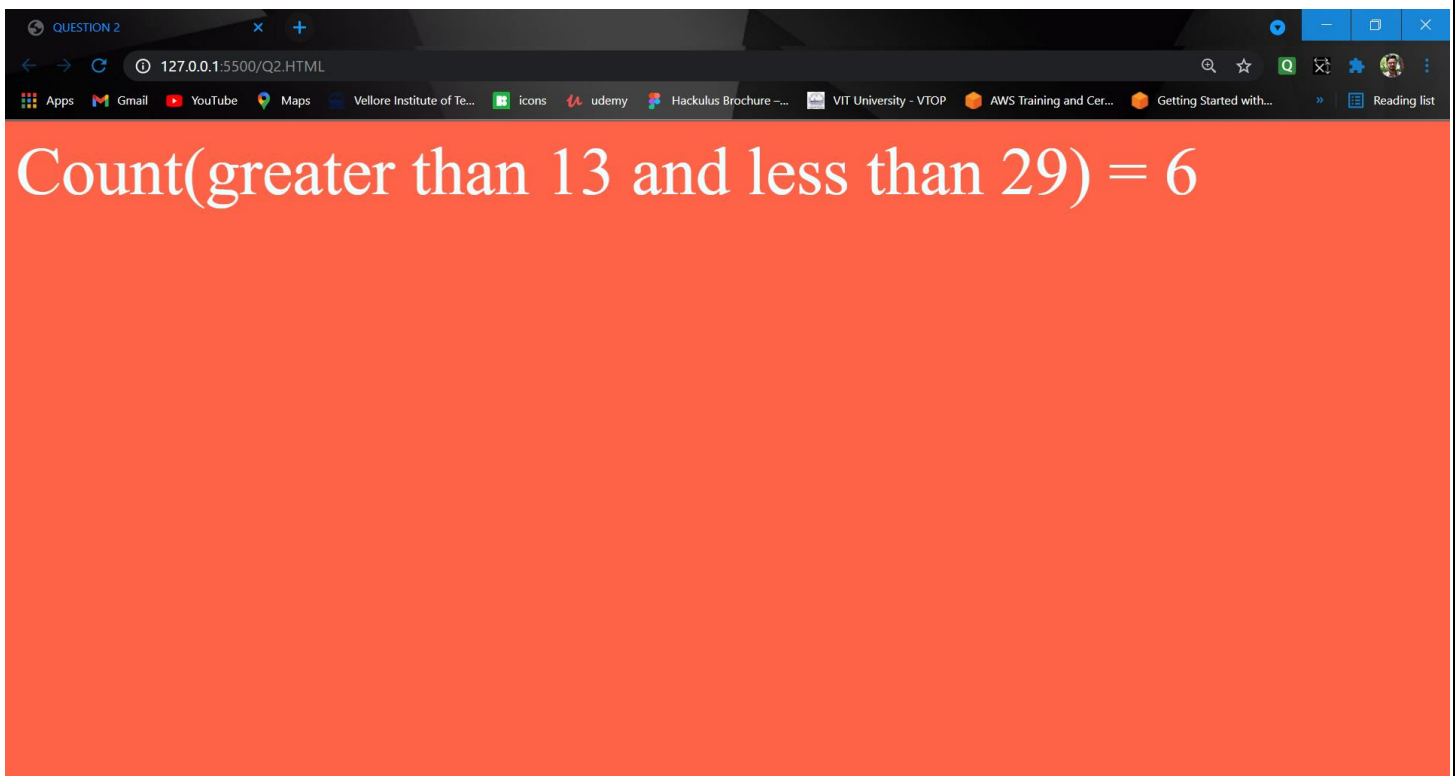
```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>QUESTION 2</title>
</head>
<body style="background-color: tomato; color: azure; font-size: 50px;">
  <script>
```

```

const count = (arr)=>{
  return arr.map((element)=>{
    return (element>13&&element<29)? 1:0;
  }).reduce((a,b)=>{
    return a+b;
  },0);
}
document.write("Count(greater than 13 and less than 29) = ");
document.write(count([1,14,16,32,21,65,20,15,9,19]));
</script>
</body>
</html>

```

OUTPUT:



3.

CODE:

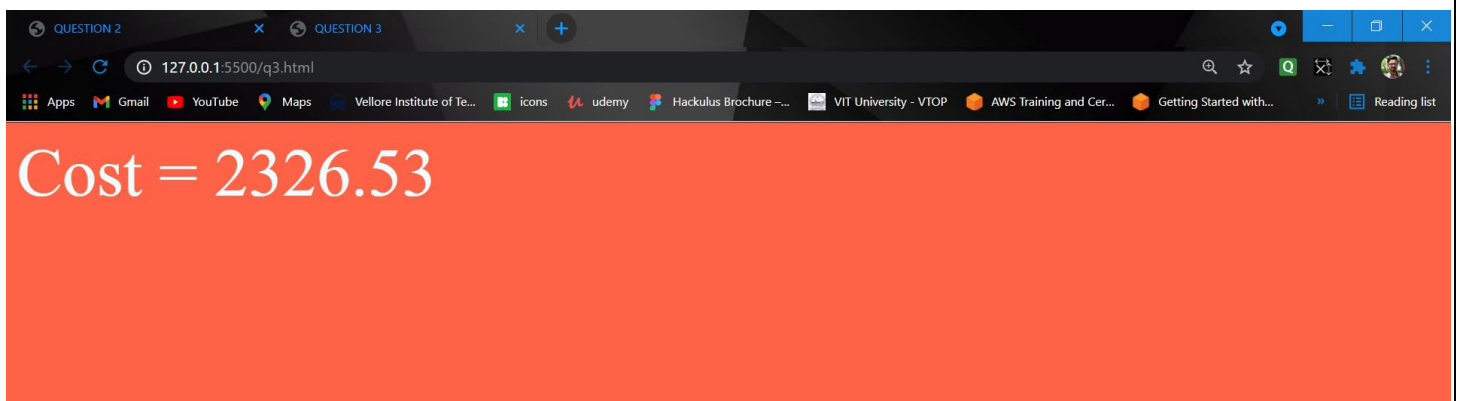
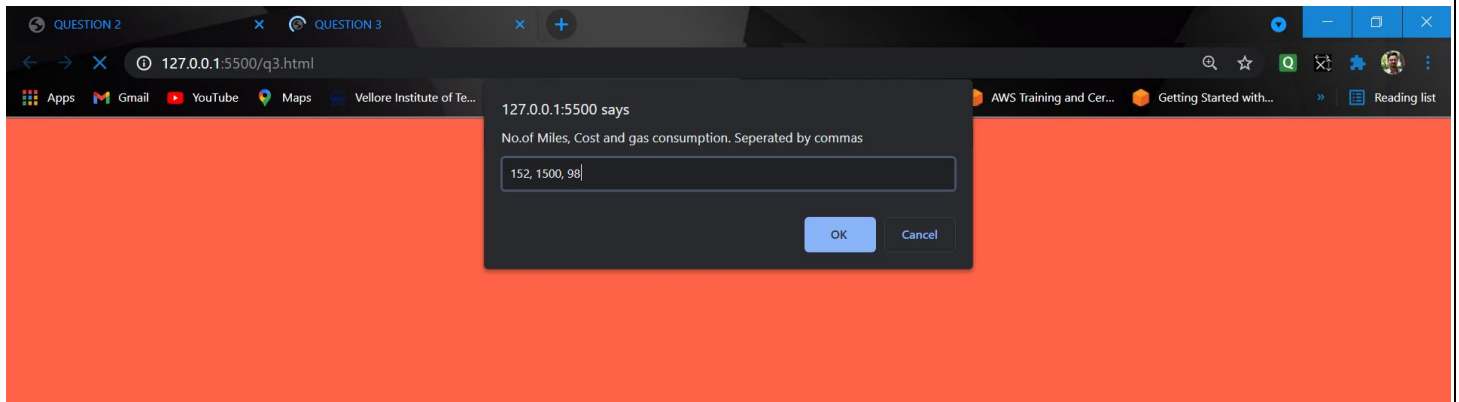
```

<!DOCTYPE html>
<html lang="en">
<head>
  <title>QUESTION 3</title>
</head>
<body style="background-color: tomato; color: azure; font-size: 50px;">
  <script>
    var calc = prompt("No.of Miles, Cost and gas consumption. Seperated by commas").split(',').map((a)=>{return parseFloat(a)});
    document.writeln("Cost = "+( calc[0]/calc[2] * calc[1]).toFixed(2));
  </script>

```

```
</body>
</html>
```

OUTPUT:



4.

CODE:

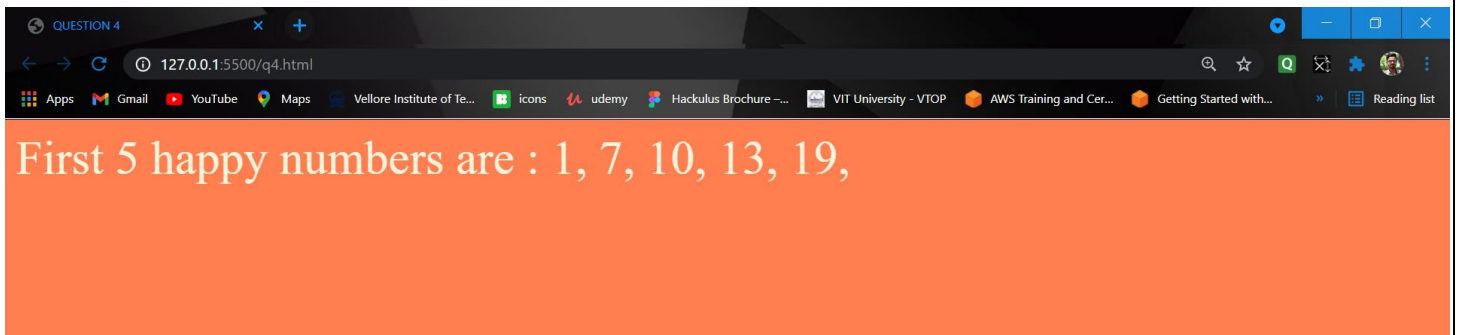
```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>QUESTION 4</title>
</head>
<body style="background-color: coral; color: beige; font-size: 35px;">
  <script>
    function happy_number(num)
    {
      var x, y ;
      var c = [] ;
      while(num != 1 && c[num] !== true)
      {
        c[num] = true ;
        y = 0 ;
        while (num > 0) {
          x = num % 10 ;
```

```

        y += x * x ;
        num = (num - x) / 10 ;
    }
    num = y ;
}
return (num == 1) ;
}
var no = 5;
var num = 1;
var f = '';
while(no-- > 0)
{
    while(!happy_number(num))
        num++ ;
    f = f+(num + ", ") ;
    num++ ;
}
document.write('First 5 happy numbers are : '+f);
</script>
</body>
</html>

```

OUTPUT:



5.

CODE:

```

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>QUESTION 5</title>
</head>
<body>
    <div id="img-div" style="width:300px;height:300px;border:1px solid black">
        <img id="img" src="" width="100%">
    </div>
    <br><br>

```

```

Image:<select id="imsel">
  <optgroup label ="Select Image">
    <option value="navdeep.png"      >Image 1</option>
    <option value="open.png"         >Image 2</option>
    <option value="rahulsingla.png">Image 3</option>
  </optgroup>
</select>
<button onclick="useim()">Change Image</button>

Align:<select id="imal">
  <optgroup label ="Select Size">
    <option value="left">Left</option>
    <option value="right">Right</option>
    <option value="back">Background</option>
  </optgroup>
</select>
<button onclick="alignch()">Change Alignment</button>

<div id="text">
  <p>Enter Your Text:<input type="text" id="entered" value="" onchange="p
rint()"></p>
  <p id="Disp"></p>
  <p>
    Size:<select id="tsize">
      <optgroup label ="Select Size">
        <option value="1em">Original</option>
        <option value="2em">Large</option>
        <option value="3em">Very Large</option>
      </optgroup>
    </select>
    <button onclick="tsize()">New Size</button>
  </p>
  <p>
    Size:<select id="tcol">
      <optgroup label ="Select Color">
        <option value="black">Black</option>
        <option value="blue">Blue</option>
        <option value="red">Red</option>
        <option value="green">Green</option>
      </optgroup>
    </select>
    <button onclick="textcolor()">New Color</button>
  </p>
</div>

<script>
  function useim(){
    document.getElementById("img").setAttribute("src",document.getEleme
ntById("imsel").value);
  }

  var rad = document.getElementById("img-div");

```

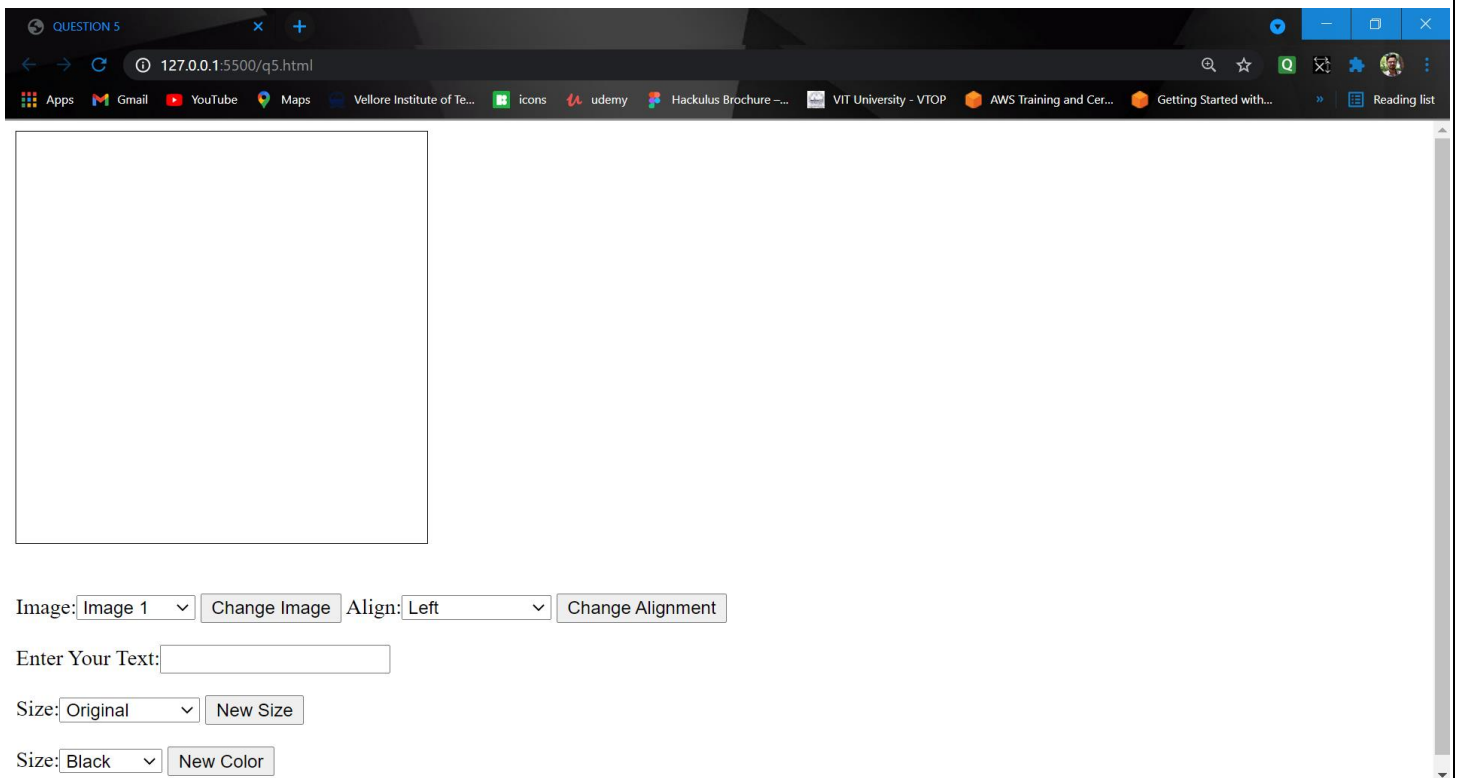
```

function alignch(){
    var al = document.getElementById("imal").value;
    if(al=="back"){
        rad.style.opacity="0";
    }else{
        rad.style.float=al;
        rad.style.opacity="1";
    }
}

function print(){
    var a = document.getElementById("entered")
    document.getElementById("Disp").innerText= a.value;
}
function tsize(){
    var ss= document.getElementById("tsize").value;
    document.getElementById("Disp").style.fontSize=ss;
}
function textcolor(){
    var cc= document.getElementById("tcol").value;
    document.getElementById("Disp").style.color=cc;
}
</script>
</body>
</html>

```

OUTPUT:



QUESTION 5

127.0.0.1:5500/q5.html

Apps Gmail YouTube Maps Vellore Institute of Te... icons udemy Hackulus Brochure ... VIT University - VTOP AWS Training and Cer... Getting Started with... Reading list




Image: Image 3 Change Image Align: Left Change Alignment

Enter Your Text: My Name is Punit Middha.

My Name is Punit Middha.

Size: Large New Size

Size: Red New Color

QUESTION 5

127.0.0.1:5500/q5.html

Apps Gmail YouTube Maps Vellore Institute of Te... icons udemy Hackulus Brochure ... VIT University - VTOP AWS Training and Cer... Getting Started with... Reading list




Image: Image 3 Change Image Align: Left Change Alignment

Enter Your Text: My Name is Punit Middha.

My Name is Punit Middha.

Size: Large New Size

Size: Red New Color

QUESTION 5

127.0.0.1:5500/q5.html

Apps Gmail YouTube Maps Vellore Institute of Te... icons udemy Hackulus Brochure ... VIT University - VTOP AWS Training and Cer... Getting Started with... Reading list


Image: Image 3 Change Image Align: Right Change Alignment

Enter Your Text: My Name is Punit Middha.

My Name is Punit Middha.

Size: Very Large New Size

Size: Blue New Color



6.

CODE:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>QUESTION 6</title>
</head>
<body>
  <div>
    <fieldset >
      <legend>Calculator</legend>
      <p>Input Customer Name:<input type="text" id="name"></p>
      <p>Parked For (Hours) :<input type="text" id="hours"></p>
      <button onclick="Charge()">Calculate</button>
      <p id="disp"></p>
    </fieldset>
    <p id="display"></p>
  </div>

  <script>
    var s = 0;0
    function Charge(){
      var n = document.getElementById("name").value;
      var t = parseFloat(document.getElementById("hours").value);
      var c = 0;
      if(t<=3){
        c=2.00;
      }
      else if(t>=3 && t<=24){
        c= 2.00 + (Math.ceil(t-3)*0.50);
        if (c>10.00){
          c=10.00;
        }
      }
      else{
        c=15.00;
      }
      var inner_c = document.getElementById("disp");
      inner_c.innerHTML="Cost of Parking for "+t+" hours, by "+n+" = "+"$
"+c.toFixed(2);
      s=s+c;
      document.getElementById("display").innerHTML="Yesterday's Running T
otal = $" +s.toFixed(2);
    }
  </script>

</body>
```

</html>

OUTPUT:

QUESTION 6

127.0.0.1:5500/q6.html

Apps Gmail YouTube Maps Vellore Institute of Te... icons udemy Hackulus Brochure ... VIT University - VTOP AWS Training and Cer... Getting Started with... Reading list

Calculator

Input Customer Name:

Parked For (Hours) :

Cost of Parking for 7 hours, by Punit Middha = \$4.00

Yesterday's Running Total = \$4.00

7.

CODE:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>QUESTION 7</title>
  <style>
    #word{
      font-size:2em;
      color: Red;
    }
    #hint{
      color:blue;
    }
  </style>
</head>
<body>
  <div id="word"></div>
  <div id="hint"></div>
  <input type="text" name="checkword" id="cw">
  <button onclick="Check()">Check</button>
  <button onclick="change()">Change</button>
  <script>
    const words = [
```

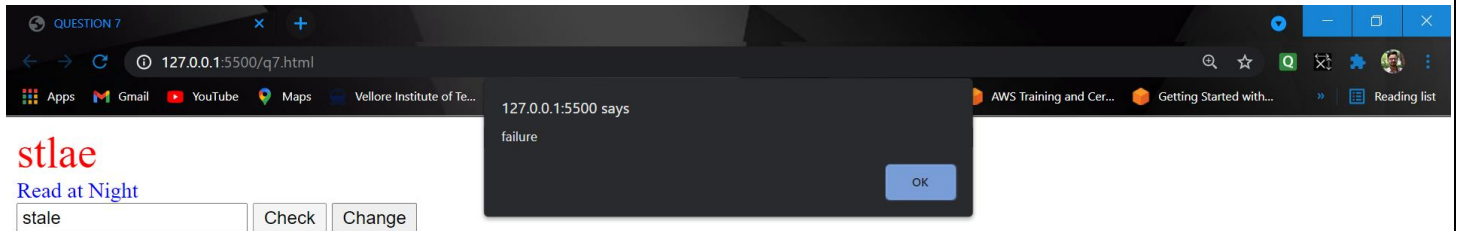
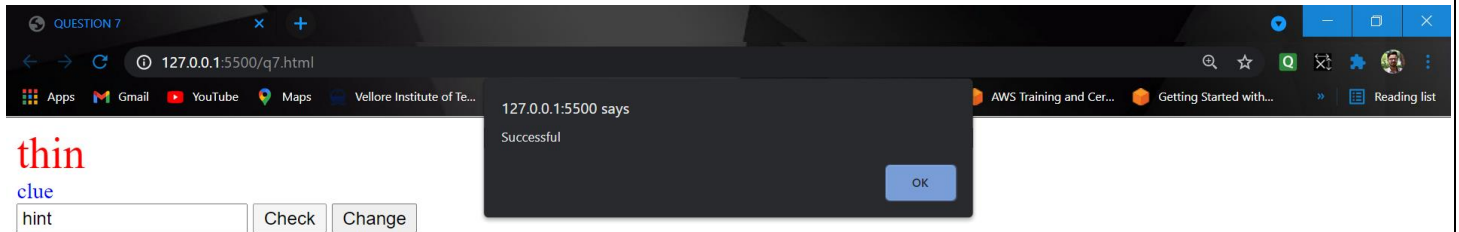
```

        {
            word:"hint",
            scrld:"thin",
            hint:"clue"
        },
        {
            word:"punit",
            scrld:"uitnp",
            hint:"My name"
        },
        {
            word:"tales",
            scrld:"stlae",
            hint:"Read at Night"
        }
    ];
    var k = Math.floor(Math.random()*3);
    document.getElementById("word").innerText = words[k].scrld;
    document.getElementById("hint").innerText = words[k].hint;

    function change(){
        k = Math.floor(Math.random()*3);
        document.getElementById("word").innerText = words[k].scrld;
        document.getElementById("hint").innerText = words[k].hint;
    }
    function Check(){
        var check_word= document.getElementById("cw").value;
        var w = words[k].word;
        if (check_word===w){
            alert("Successful");
        }
        else{
            alert("failure");
        }
    }
}
</script>
</body>
</html>

```

OUTPUT:



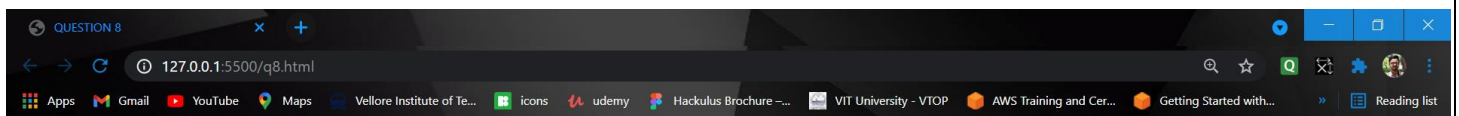
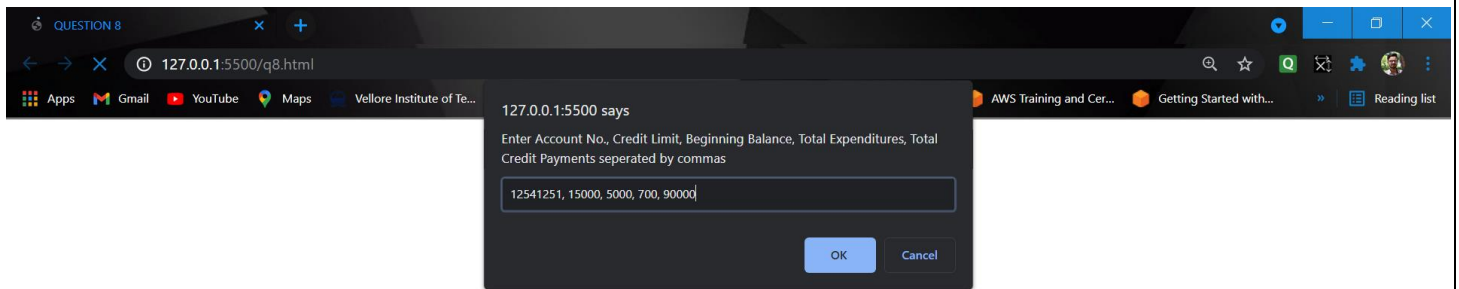
8.

CODE:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>QUESTION 8</title>
</head>
<body>
  <script>
    var account = prompt("Enter Account No., Credit Limit, Beginning Balance, Total Expenditures, Total Credit Payments seperated by commas").split(",");
    ap((el)=>{return parseInt(el);});

    var newbalance = account[2]+account[3]-account[4];
    if(newbalance>account[1]){
      document.write("New balance =" +newbalance+"<br>Credit Limit Exceeded!");
    }else{
      document.write("New balance =" +newbalance+"<br>Credit Limit Not Exceeded!");
    }
  </script>
</body>
</html>
```

OUTPUT:



New balance =-84300
Credit Limit Not Exceeded!

9.

CODE:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Question 9</title>
</head>
<body id="pg_body">
  <input type="button" value="Start Quiz" onclick="start()">
  <script type="text/javascript">
    seconds=10;
    curr_index=0;
    max_index=2;
    timer=null;
    question_list=[
      ['1','What does HTML stand for','Hyper text makeup language','Hyper Text Markup Language','Hello taste markup language','Hyper Para Markup Language','Hyper Text Markup Language'],
      ['2','Who invented zero','Aryabhatt','Einstein','Newton','Galileo','Aryabhatt']]
    result_array=Array();
    correct_answer=Array();
    for(i=0;i<max_index;i++)
```

```

{
    result_array[i]='';
    correct_answer[i]=question_list[i][6];
}
function createLayout()
{
    if(curr_index<max_index)
    {
        document.getElementById('pg_body').innerHTML='';
        var str='';
        str+='<table border="2px" cellspacing="5px" cellpadding="5px">';
        str+='<tr><td id="timer"></td></tr>';
        str+='<tr>';
        str+='<td>';
        str+=question_list[curr_index][1]+'<br>';
        str+='<input type="radio" name="result" value="'+question_list[curr_index][2]+'>'+question_list[curr_index][2]+'<br>';
        str+='<input type="radio" name="result" value="'+question_list[curr_index][3]+'>'+question_list[curr_index][3]+'<br>';
        str+='<input type="radio" name="result" value="'+question_list[curr_index][4]+'>'+question_list[curr_index][4]+'<br>';
        str+='<input type="radio" name="result" value="'+question_list[curr_index][5]+'>'+question_list[curr_index][5]+'<br>';
        str+='</td>';
        str+='</tr>';
        str+='<tr><td>';
        str+='<input type="button" value="Next" id="next_question"></td></tr>';

        str+='</table>';
        document.getElementById('pg_body').innerHTML=str;
    }
}
function start()
{
    createLayout();
    timer=setInterval(function(){
        seconds=parseInt(seconds);
        seconds-=1;
        seconds=seconds<10?"0"+seconds : seconds;
        document.getElementById('timer').textContent=seconds;
        if(seconds<=0)
        {
            storeResult();
            nextQuestion();
        }
    },1000);
}
function nextQuestion()
{
    seconds=10;
    if(++curr_index>=max_index)
    {

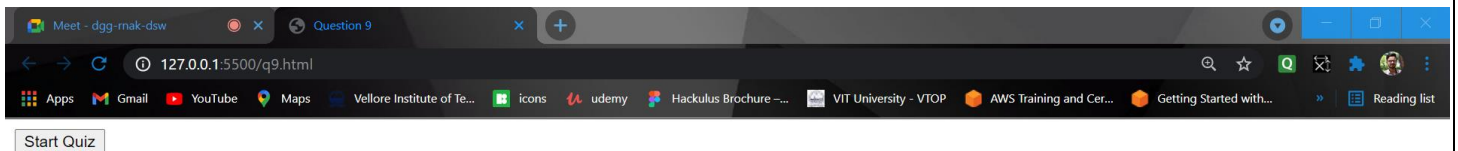
```

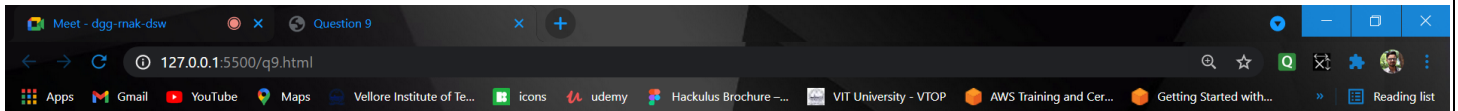
```

        clearInterval(timer);
        document.getElementById('pg_body').innerHTML='<h2>Your Score '+score()+ '</h2>';
    }
    createLayout();
}
document.addEventListener('click',function(event){
    if(event.target.id==='next_question')
    {
        storeResult();
        nextQuestion();
    }
});
function storeResult(){
    var results=document.getElementsByName('result');
    for(var i=0;i<results.length;i++)
    {
        if(results[i].checked)
        {
            result_array[curr_index]=results[i].value;
        }
    }
}
function score()
{
    count=0;
    for(i=0;i<max_index;i++)
    {
        if(result_array[i]===correct_answer[i])
            count++;
    }
    return count/max_index *100;
}
</script>
</body>
</html>

```

OUTPUT:





03

What does HTML stand for

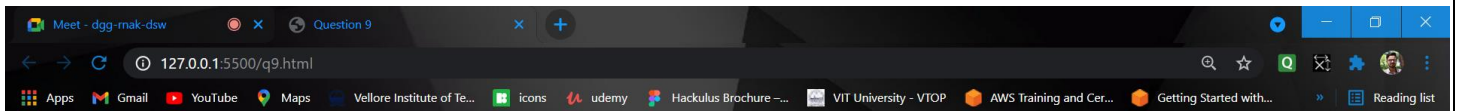
☐ Hyper text makeup language

☒ Hyper Text Markup Language

☐ Hello taste markup language

☐ Hyper Para Markup Language

Next



07

Who invented zero

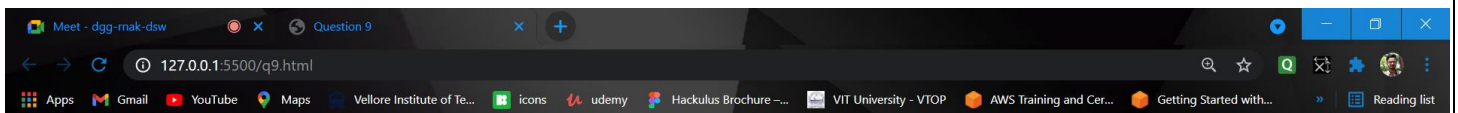
☐ Aryabhata

☐ Einstein

☐ Newton

☐ Galileo

Next



Your Score 50

10.

CODE:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>QUESTION 10</title>
</head>
<body>
  <div>
    <fieldset>
      <legend style="text-align: center;">Validate Credit Cards</legend>
      <p>
        Credit Card: <select id="selectcard">
          <optgroup label="select card">
            <option value="Amex">American Express</option>
            <option value="Diner">Diner's Club</option>
            <option value="Disc">Discover</option>
          </optgroup>
        </select>
      </p>
    </fieldset>
  </div>
</body>
</html>
```



```

        <option value="Jcb">JCB</option>
        <option value="MasterC">Master Card</option>
        <option value="visa">Visa</option>
    </optgroup>
</select>
</p>
<p>
    Number:<input type="text" id="num">
</p>
<p>
    <button onclick="validate()">Validate</button>
</p>
<p id="result"></p>
</fieldset>
</div>
<script>
    var Amex = /^3[47]\d{13}$/;
    var Diner = /^(30[0-5]|36\d|38\d)\d{11}$/;
    var Disc = /^(6011|65\d{2})\d{12}$/;
    var Jcb = /^(2131|1800|35\d{3})\d{11}$/;
    var MasterC = /^5[1-5]\d{14}$/;
    var visa = /^(4\d{12}|4\d{15})$/;
    function validate(){
        var c = eval(document.getElementById("selectcard").value);
        var n = document.getElementById("num").value;
        var p = document.getElementById("result");
        if(c.test(n)){
            p.innerHTML="Card No. is Valid!";
        }else{
            p.innerHTML="Card no. is InValid!";
        }
    }
</script>
</body>
</html>

```

OUTPUT:

QUESTION 10

127.0.0.1:5500/q10.html

Apps Gmail YouTube Maps Vellore Institute of Te... icons udemy Hackulus Brochure -... VIT University - VTOP AWS Training and Cer... Getting Started with... Reading list

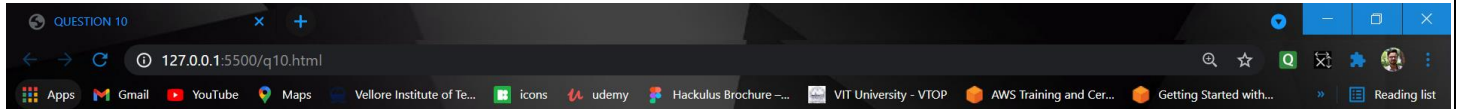
Validate Credit Cards

Credit Card: JCB

Number: 2131180035698547

Validate

Card No. is Valid!



Validate Credit Cards

Credit Card:

Number:

Card no. is InValid!

11.

CODE:

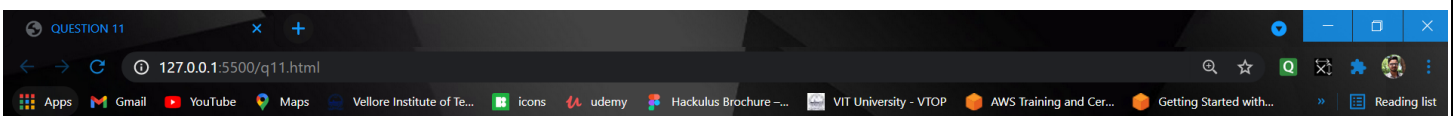
```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>QUESTION 11</title>
  <script src="https://cdnjs.cloudflare.com/ajax/libs/jquery/3.6.0/jquery.min.js" integrity="sha512-894YE6QWD5I59HgZOGReFYm4dnWc1Qt5NtYSaNCOP+u1T9qYdvdihz0PPSiiqn+/3e7Jo4EaG7TubfWGURMQ==" crossorigin="anonymous"></script>
</head>
<body>
  <table id="table">
    <tr>
      <th>First Name</th>
      <th>Last Name</th>
      <th>City</th>
      <th>State</th>
    </tr>
    <tr>
      <td>Punit</td>
      <td>Middha</td>
      <td>Chandler</td>
      <td>Arizona</td>
    </tr>
    <tr>
      <td>Barry</td>
      <td>Clark</td>
      <td>Dallas</td>
      <td>Texas</td>
    </tr>
    <tr>
      <td>Moler</td>
```

```

        <td>Cleve</td>
        <td>Boston</td>
        <td>Massachusetts</td>
    </tr>
    <tr>
        <td>Punit</td>
        <td>Middha</td>
        <td>Chandler</td>
        <td>Arizona</td>
    </tr>
    <tr>
        <td>Barry</td>
        <td>Clark</td>
        <td>Dallas</td>
        <td>Texas</td>
    </tr>
    <tr>
        <td>Moler</td>
        <td>Cleve</td>
        <td>Boston</td>
        <td>Massachusetts</td>
    </tr>
    <tr>
        <td>Punit</td>
        <td>Middha</td>
        <td>Chandler</td>
        <td>Arizona</td>
    </tr>
</table>
<script>
    $("table").css("background-color", "#eee");
    $("tr:odd").css("background-color", "gray");
    $("td,th").css("border", "2px solid blue");
    $("td").css("width", "100px");
    $("#table").css("border-collapse", "collapse");
</script>
</body>
</html>

```

OUTPUT:



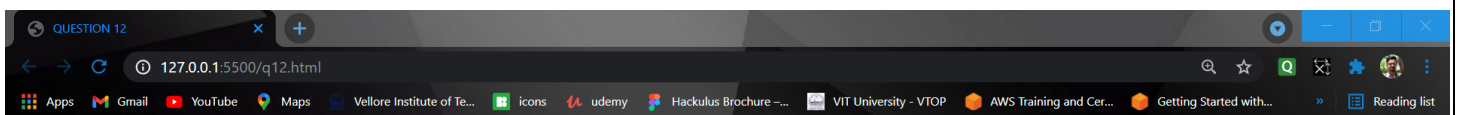
First Name	Last Name	City	State
Punit	Middha	Chandler	Arizona
Barry	Clark	Dallas	Texas
Moler	Cleve	Boston	Massachusetts
Punit	Middha	Chandler	Arizona
Barry	Clark	Dallas	Texas
Moler	Cleve	Boston	Massachusetts
Punit	Middha	Chandler	Arizona

12.

CODE:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>QUESTION 12</title>
  <script src="https://cdnjs.cloudflare.com/ajax/libs/jquery/3.6.0/jquery.min.js" integrity="sha512-894YE6QWD5I59HgZOGReFYm4dnWc1Qt5NtvYSaNcOP+u1T9qYdvdihz0PPSiiqn+/3e7Jo4EaG7TubfWGURMQ==" crossorigin="anonymous"></script>
</head>
<body>
  <div id="container">
    <h2>Blue Cow by Gelett Burgers (Published in The Lark,1992)</h2>
    <p>I never saw a <b>Blue</b> Cow, I hope to see one; but i can't tell you ,anyhow, i'd rather see than be one</p>
  </div>
  <p>Change Color to:
    <input type="text" id="color">
    <button onclick="change()">Change</button>
  </p>
  <script>
    function change(){
      $("#container").html($("#container").html().replaceAll(/Blue/gi,$("#color").val()));
    }
  </script>
</body>
</html>
```

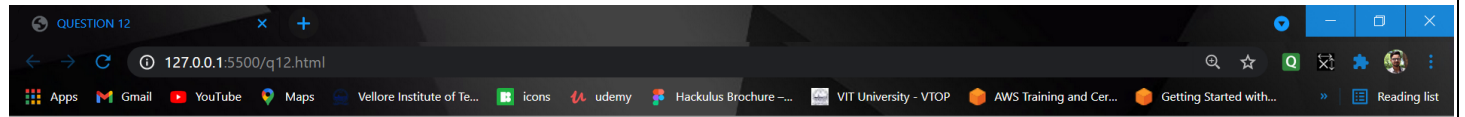
OUTPUT:



Blue Cow by Gelett Burgers (Published in The Lark,1992)

I never saw a **Blue** Cow, I hope to see one; but i can't tell you ,anyhow, i'd rather see than be one

Change Color to:



Green Cow by Gelett Burgers (Published in The Lark,1992)

I never saw a **Green** Cow, I hope to see one; but i can't tell you ,anyhow, i'd rather see than be one

Change Color to: