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| **Name :Vishwas M** | **SRN:PES2UG20CS390** | **Section: F** |
| **Date: 30/09/2021** | **Unit 2 Assignment** |

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| PROBLEM STATEMENT2 (for even number SRNs): |
| 1. **Create a registration form using Ajax to add Student Details like SRN, Name, Semester, Section and Club name. (No limits to the input fields)**   a) Display an emoji using canvas element on the right side of the form on successful signup.  b) Add event listeners to all fields for validation using default propagation phase. (If any field is empty or any invalid PES SRN etc.)  **II. Write jQuery code to accomplish the following:**  a) Insert the text "I love jQuery!!!" at the beginning of a <p> element.  b) Use the correct selector to hide all odd table rows in a table.  c) On moving the mouse over any table cell, the text font size should be increased by 2 times  d) To toggle between fading in and out a <div> element, when clicking on a button. The duration of the effect should be 1000 milliseconds.    Note: the sample screenshot of output is just for your reference. You have to design your own template. |
| OBJECTIVE |
| The objective of this exercise is to test the student on HMTL and JavaScript. It evaluates the student’s knowledge on HTML5 and jQuery/JavaScript for DOM, events, event handling CSS Styles, AJAX |
| PREREQUISITE |
| In order to complete this exercise, the student needs to understand the fundamentals of HTML5, JavaScript and jQuery. |
| **PROGRAM-1:**  **REGISTRATION FORM:**  <html>      <head>          <meta charset = "UTF-8">          <title>Registration Form</title>          <script src = "https://code.jquery.com/jquery-3.5.1.js"></script>          <style>              body{                  background:rgb(126, 238, 186);              }              div{                  text-align: center;              }              h1{                  font-size: 60;                  color:blue;              }              label{                  font-size: 30;                  color:rgb(235, 76, 14)              }              #submit,#reset{                  font-size: 30;                  color:rgb(128, 45, 167)              }          </style>      </head>      <body>          <h1 align = "center">Registration Form</h1>              <div>              <form name = "form" onsubmit="return myfunc()" method = "post">  <label for="firstname">First Name:\*</label><input type="text" id="firstname" required><br><br>  <label for="lastname">Last Name:\*</label><input type="text" id="lastname" required><br><br>                  <label>SRN :\*</label> <input type = "text" id = "srn" name = "srn" pattern = "PES[1-3]UG(1[89]|2[01])(CS|ME|EE|EC)\d{3}" title = "Sample: PES2UG20CS342" required> <br><br>                  <label>Semester :\*</label> <input type = "text" id = "sem" name = "sem" pattern = "[1-8]" title = "Semester must be between 1 and 8" required> <br><br>                  <label>Section :\*</label> <input type = "text" id = "sec" name = "sec" required> <br><br>                  <label>Club :</label> <input type = "text" id = "club" name = "club"> <br><br>                  <input type = "Reset" id="reset">                  <input type = "Submit" id = "submit">              </form></div><br><br>          <canvas id="canvas" width="650" height="200">              Canvas is not supported          </canvas>          <script src = "emoji.js"></script>      </body>  </html>  **emoji.js:**  var h = document.querySelector('#submit');    function myfunc()  {      alert("you submitted the form!!");      $('canvas').show(9000)      const canvas = document.querySelector("#canvas");      const contex = canvas.getContext("2d");      contex.font = '100px serif';      contex.textAlign = "right";      contex.textBaseline = "right";      contex.fillText('💀', canvas.width / 2, canvas.height / 2);  }    h.addEventListener('click',myfunc,true); |
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| PROGRAM 2: **TABLE:**  <html>      <head>          <meta charset = "UTF-8">          <title>TABLE</title>  <link rel="stylesheet" type="text/css" href="table.css">          <script src = "https://code.jquery.com/jquery-3.5.0.js"></script>      </head>      <body>          <h1 align = "center">TABLE:</h1>              <div style="background:#2E9AFE;width:100%;"> This will get faded....please wait and watch!!! </div>  <button id="btn1">Click to fade </button>  <br>  <br>  <table class="some\_style"border="5" bordercolor="#17202A" bgcolor="#9B59B6" width="50%" cellspacing="2" cellpadding="3">  <tr>  <th rowspan="2"> SL NO. </th>  <th rowspan="2"> SECTION </th>  <th colspan="2"> NUMBER OF STUDENTS: </th>  <th rowspan="2"> TOTAL: </th>  </tr>  <tr>  <th> CSE </th>  <th> ECE </th>  </tr>  <tr>  <td class="b1"> 1 </td>  <td class="b2"> B </td>  <td class="b3"> 45 </td>  <td class="b4"> 34 </td>  <td class="b5"> 89 </td>  </tr>  <tr>  <td class="b6"> 2 </td>  <td class="b7"> C </td>  <td class="b8"> 36 </td>  <td class="b9"> 67 </td>  <td class="b10"> 40 </td>  </tr>  </table>  <button id="btn2">Fading odd rows off the table</button>          <script src = "emoji.js"></script>      </body>  </html>  **emoji.js:**  var h = document.querySelector('#sub');  $(document).ready(function(){    $("button:first").click(function(){  $("form input").hide()  $("body").append( $("<p>").html("I love JQuery!!!").css("color","blue","width","30%").css("width","30%") )  });  $("#btn1").click(function(){  $("div").fadeToggle(1000);  });   $("#btn2").click(function(){  $("tr:odd").hide();   } );  });  **table.css**  table:hover  {     text-align:center;     font-size:300%;  }  table  {     text-align:center;    }  .b2:hover{      font-size:400%;  }  div{      font-size:30;      width:20%;  }  body{      background:rgb(126, 238, 186);  }    table.some\_style td {  background-color: rgb(216, 162, 45);  }    table.some\_style td:hover {  background-color: rgb(10, 100, 122);  } |
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