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| **Name: Sriram R** | **SRN: PES1UG20CS435** | **Section: H** |
| **Date: 02-10-2021** | **Unit 2 Assignment Exercise** |
| PROBLEM STATEMENT1 (for odd number SRNs): | | |
| Create a Sign-up form that takes the following inputs:First name, Last name, Email address, Phone number and Address.a) All inputs except Last Name are mandatory fields. Validate email id for correct format and phone number should be 10 digits.b) Use addEventListener() for adding events. When you press submit button, use capturing phase. c) If mandatory fields are not filled, then display the following   1. Alert message should display incorrect fields, followed by Emoji in canvas.   **II.Write jQuery code to accomplish the following:**  1.Add a header and paragraph your own way using CSS  2. Remove the header and paragraph styles applied in step 1 using jQuery  3. To toggle between fading in and fading out a header element on a Button click  4. Using Ajax create a video element and display the video on the webpage.  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. | | |
| SAMPLE SCREENSHOT OF OUTPUT (Just for your reference) | | |
| SAMPLE1: | | |
| PROGRAM | | |
| **Problem statement I :**  **assg1.html :**  <!DOCTYPE html>  <html lang="en" dir="ltr">  <head>  <meta charset="utf-8">  <title>Sign-up form</title>  </head>  <body>  <form action="" method="get" class="f1">  First, Last Name\* : &nbsp;&nbsp;&nbsp;<input type="text" name="FName" id="" required>&nbsp;<input type="text" name="LName" id="" required><br><br>  Organisation &nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp; : &nbsp;&nbsp;&nbsp;<input type="text" name="org" id="org1"><br><br>  Email Address &nbsp;&nbsp;&nbsp;&nbsp; : &nbsp;&nbsp;&nbsp;<input type="email" name="Email" id="email1" required><br><br>  Work phone &nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp; : &nbsp;&nbsp;&nbsp;<input type="text" pattern="[0-9]{0,}" name="" id="num1" minlength="10" maxlength="10"><br><br>  Home phone\* &nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;:&nbsp;&nbsp;&nbsp; <input type="text" pattern="[0-9]{0,}" name="" id="num2" required minlength="10" maxlength="10"><br><br>  Cell phone &nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;:&nbsp;&nbsp;&nbsp; <input type="text" pattern="[0-9]{0,}" name="" id="num3" minlength="10" maxlength="10"><br><br>  Fax &nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;: &nbsp;&nbsp;&nbsp;&nbsp;<input type="text" pattern="[0-9]{0,}" name="" id="num4" minlength="8" maxlength="8"><br><br>  Address 1\* &nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;: &nbsp;&nbsp;&nbsp;&nbsp;<input type="text" name="" id="addr1" required><br><br>  Address 2 &nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;: &nbsp;&nbsp;&nbsp;&nbsp;<input type="text" name="" id="addr2"><br><br>  \* - Required fields &nbsp;&nbsp;&nbsp; <button type="submit">Submit</button><br><br>  </form>  <canvas id="emoji" height="125" width="125" style="border:1px solid #000000;background-color: beige;"></canvas>  <script type="text/javascript" src="assg1.js"></script>  </body>  </html>  **assg1.js :**  document.getElementById("email1").addEventListener("invalid",imgShow);  document.getElementById("num2").addEventListener("invalid",imgShow);  document.getElementById("addr1").addEventListener("invalid",imgShow);  var image2 = new Image();  image2.src="emoji.jpg";  var c2 = document.getElementById("emoji");  var can = c2.getContext("2d");  image2.height="25";  image2.width="25";  image2.hide;  function imgShow(){  alert("Email / Home phone / Address 1 incorrect. Please try again ... ");  can.drawImage(image2,1,1);  }  **Problem statement II :**  **assgn1.html :**  <!DOCTYPE html>  <html lang="en" dir="ltr">  <head>  <meta charset="utf-8">  <title>jQuery question</title>  </head>  <body>  <script src="https://code.jquery.com/jquery-3.6.0.js" integrity="sha256-H+K7U5CnXl1h5ywQfKtSj8PCmoN9aaq30gDh27Xc0jk=" crossorigin="anonymous"></script>  <script>  $(document).ready(function(){  $("#disappear").click(function(){  $(".mainHead").css("color","");  $(".para").hide();  });  $("#headerFade").click(function(){  $(".mainHead").fadeToggle("slow")  });  $("#reset").click(function(){  $(".mainHead").css("color","blue");  $(".para").show();  });  $('.getVideo').click(() => {  fetch('abc.mp4')  .then((resp) => {  alert(resp.status);  return resp.blob();  }).then((vid) => {  var video=$("video")  video.width = 300;  video.src = 'abc.mp4';  document.body.appendChild(video);  video.controls = true;  });  });  });  </script>  <h1 class="mainHead" style="color: blue;">Header tag</h1>  <p class="para" style="color: brown;">  Pressing the change button will disappear this p tag and change the header color  </p>  <button id="disappear">change</button>  <button id="reset">reset page</button>  <button id="headerFade">toggleHeaderFade</button>  <br>  <video class="getVideo1" src="abc.mp4" controls autoplay width="480" height="360"></video>  </body>  </html> | | |
| SCREENSHOT OF YOUR OUTPUT | | |
| I. **II.** | | |