**INTERNET TECHNOLOGY**

**ASSIGNMENT**

* **Harsh Tanwar**
* **(88032)**

|  |  |
| --- | --- |
| QUE.6 | Create a form that takes data about a pet. The form must be well designed and should accept the pet’s name, age, weight, type, and what it likes most. At the submission of this form create a Pet object in JavaScript filled with these values and log that object and equivalent JSON on the console. |
|  | **HTML FILE**  <!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>Pet Form</title>  <link rel="stylesheet" href="./style.css">  <link rel="preconnect" href="https://fonts.googleapis.com">  <link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>  <link href="https://fonts.googleapis.com/css2?family=Allura&family=Merriweather:ital@0;  1&family=Montserrat:wght@100;400;900&family=Tangerine:wght@400;700&family=Ubuntu&display=swap"  rel="stylesheet">  </head>  <body>  <div class="container">  <div class="head">  <img id="logo" src="./petLogo.png" alt="Logo">  <h1>Pet Care Foundation</h1>  </div>  <h2>Survey Form</h2>  <h3>Pet Details</h3>  <form id="petForm">  <select name="type" id="type" class="input selectInput" required>  <option value="" disabled selected>Select Pet Type</option>  <option value="dog" class="selectInput">Dog</option>  <option value="cat" class="selectInput">Cat</option>  <option value="bird" class="selectInput">Bird</option>  <option value="other" class="selectInput">Other</option>  </select>  <br>  <input type="text" name="name" id="name" class="input" placeholder="Enter Your Pet's Name" required>  <br>  <input type="number" name="age" id="age" class="input" placeholder="Enter Your Pet's Age" required>  <br>  <input type="number" name="weight" id="weight" class="input" placeholder="Enter Your Pet's Weight" required>  <br>  <input type="text" name="like" id="like" class="input" placeholder="Enter What Your Pet Likes" required>  <br>  <input type="submit" name="submit" id="submit">  <input type="reset" name="reset" id="reset">  </form>  </div>  <script src="./script.js"></script>  </body>  </html>  **CSS FILE**  /\*  font-family: 'Allura', cursive;  font-family: 'Merriweather', serif;  font-family: 'Montserrat', sans-serif;  font-family: 'Tangerine', cursive;  font-family: 'Ubuntu', sans-serif;  \*/  body{  font-family: 'Montserrat', sans-serif;  background-color: #406882;  color: whitesmoke;  margin: 0 auto;  width: 70%;  align-items: center;  }  #logo{  width: 100px;  height: 100px;  border-radius: 50%;  }  .head>h1{  float: right;  text-align: left;  position: absolute;  top: 0.9rem;  left: 26rem;  font-size: 3rem;  }  h2{  font-size: 2.5rem;  }  h3{  font-size: 2rem;  }  form{  margin: 2rem 2rem 2rem 0;  background-color: #5d849e;  padding: 4rem;  }  #typeLabel{  margin: 1rem 1rem 1rem 0;  font-size: 1.7rem;  }  .input{  width: 30%;  height: 2rem;  margin: 2rem 2rem 2rem 0;  background: #ffffff;  outline: none;  color: #064663;  border: none;  border-radius: 40px;  }  input{  padding: 1rem 2rem;  }  #submit,#reset{  padding: 1.2rem 3.5rem;  margin: 2rem 1.7rem 2rem 1rem;  border: none;  border-radius: 40px;  font-size: 1rem;  font-weight: 600;  }  #submit{  background: #4FD3C4;  transition: all 0.2s ease-in-out;  }  #submit:hover{  cursor: pointer;  background: #77e7da;  }  #reset{  background: #D3DEDC;  transition: all 0.2s ease-in-out;  }  #reset:hover{  cursor: pointer;  background: #dedfde;  }  **JS FILE**  document.getElementById('petForm').addEventListener('submit', (e)=>{  e.preventDefault();  const type = document.getElementById('type').value;  const name = document.getElementById('name').value;  const age = parseInt(document.getElementById('age').value);  const weight = parseInt(document.getElementById('weight').value);  const like = document.getElementById('like').value;  const pet = {  name,  age,  weight,  type,  like  };  console.log(pet);  console.log(JSON.stringify(pet,null,5));  })  **OUTPUT :** |

|  |  |
| --- | --- |
| QUE.3 | Create an HTML page that shows information about you, your course, hobbies, address, and your plans. Use CSS for styling of HTML page so that looks nice. |
|  | **HTML 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>Harsh Tanwar </title>  <link rel="stylesheet" href=".prsnl.css">  <link rel="preconnect" href="https://fonts.googleapis.com">  <link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>  <link href="https://fonts.googleapis.com/css2?family=Allura&family=Merriweather:ital@0;  1&family=Montserrat:wght@100;400;900&family=Tangerine:wght@400;700&family=Ubuntu&display=swap"  rel="stylesheet">  <script src="https://kit.fontawesome.com/4c970b232e.js" crossorigin="anonymous"></script>  </head>  <body>  <div class="landing" id="landing">  <h1>HII</h1>  <p>My name is Harsh</p>  <img id="bgImg" src="./images/landingVectorBg.png" alt="">  </div>  <hr id="hr1">  <div class="shortProfile">  <img id="profilePic" src="P2.jpeg" alt="Profile Photo">  <h3>Harsh Tanwar</h3>  <h4>Student</h4>  </div>  <hr>  <div class="personalDetails">  <h2>Personal Details</h2>  <table>  <tr>  <td>  <h5>Name</h5>  </td>  <td>  <p>Harsh Tanwar</p6>  </td>  </tr>  <tr>  <td>  <h5>Date of Birth</h5>  </td>  <td>  <p>4 December 2001</p>  </td>  </tr>  <tr>  <td>  <h5>Course</h5>  </td>  <td>  <p>B.Sc.(hons) Computer Science</p>  </td>  </tr>  <tr>  <td>  <h5>University</h5>  </td>  <td>  <p>Delhi University</p>  </td>  </tr>  <tr>  <td>  <h5>Address</h5>  </td>  <td>  <p>XYZ</p>  </td>  </tr>  <tr>  <td>  <h5> </h5>  </td>  <td>  <p> ABC</p>  </td>  </tr>  </table>  </div>  <hr>  <div class="skills">  <h2>Skills</h2>  <div class="skill-row sr1">  <img class="skill-img si1" src="./images/programming.jpg" alt="Programming">  <div class="skill-text st1">  <h4>Programming</h4>  <ul>  <li>Intermediate knowledge of C++, JAVA and Python</li>  <li>Basic knowledge of JavaScript</li>  <li>Basic to intermediate knowledge of Data Structures</li>  </ul>  </div>  </div>  <div class="skill-row sr2">  <img class="skill-img si2" src="./images/webdev.jpg" alt="Web Dev">  <div class="skill-text st2">  <h4>Web Development</h4>  <ul>  <li>Good experience in front-end development</li>  <li>Basic knowledge of UI designing</li>  <li>Learning Full-Stack</li>  </ul>  </div>  </div>  <div class="skill-row sr3">  <img class="skill-img si3" src="./images/dataScience.jpg" alt="Data Science">  <div class="skill-text st3">  <h4>Data Science</h4>  <ul>  <li>Knowledge of Jupyter and Anaconda</li>  <li>Basics of MATLAB</li>  <li>Learning tableau</li>  </ul>  </div>  </div>  </div>  <hr>  <div class="hobbies">  <h2>Hobbies</h2>  <div class="hobbies-row hr1">  <img class="hobbies-img hi1" src="./images/guitar.jpg" alt="Guitar">  <div class="hobbies-text ht1">  <h4>Guitar</h4>  <ul>  <li>Learning on my own</li>  <li>Love to play</li>  <li>Want to perform in Sunburn Arena</li>  </ul>  </div>  </div>  <div class="hobbies-row hr2">  <img class="hobbies-img hi2" src="./images/music.png" alt="Music">  <div class="hobbies-text ht2">  <h4>Music</h4>  <ul>  <li>Love to listen music</li>  <li>Provides a mood relax after hectic schedule</li>  <li>Romantic songs are love, but genere doesn't matter generally</li>  </ul>  </div>  </div>  <div class="hobbies-row hr3">  <img class="hobbies-img hi3" src="./images/reading.png" alt="Book Reading">  <div class="hobbies-text ht3">  <h4>Book Reading</h4>  <ul>  <li>Love to read book sometimes</li>  <li>Stacking book might be a hobbie too</li>  <li>Books are always best knowledge providers</li>  </ul>  </div>  </div>  </div>  <hr>  <div class="plans">  <h2>Future Plans</h2>  <div class="plans-row pr1">  <img class="plans-img pi1" src="./images/empire.jpg" alt="Empire">  <div class="plans-text pt1">  <h4>Build My Empire</h4>  <ul>  <li>Build a Company</li>  <li>Earn billions of dollor</li>  <li>Purchase a Palace Home and a Range Rover</li>  </ul>  </div>  </div>  <div class="plans-row pr2">  <img class="plans-img pi2" src="./images/hiking.jpg" alt="Hiking">  <div class="plans-text pt2">  <h4>Hiking on Mountains</h4>  <ul>  <li>Go for trekking</li>  <li>Living on mountains</li>  <li>Sleeping under open night sky</li>  </ul>  </div>  </div>  <div class="plans-row pr3">  <img class="plans-img pi3" src="./images/pmIndia.jpg" alt="Prime Minister">  <div class="plans-text pt3">  <h4>Become an Administrator</h4>  <ul>  <li>Become an Administrator</li>  <li>Improve the Education quality and delivery mechanish</li>  <li>Make education affordable.</li>  </ul>  </div>  </div>  </body>  </html>  **CSS FILE**  /\*  font-family: 'Allura', cursive;  font-family: 'Merriweather', serif;  font-family: 'Montserrat', sans-serif;  font-family: 'Tangerine', cursive;  font-family: 'Ubuntu', sans-serif;  \*/  body {  margin: 0;  padding: 0;  text-align: center;  font-family: 'Merriweather', serif;  background-color: #2F8F9D;  }  ::-webkit-scrollbar {  display: none;  }  ::selection{  background: #176d7a;  color: whitesmoke;  }  hr {  border-style: dotted none none;  border-width: 8px;  border-color: #395B64;  width: 4%;  background-color: transparent;  }  div {  margin: 0;  padding: 0;  }  /\* Landing Section \*/  .landing {  background-color: #82DBD8;  }  #bgImg {  width: 100vw;  height: 100vh;  }  .landing>h1,  .landing>p {  position: relative;  top: 14rem;  color: #2F8F9D;  margin: 0;  }  .landing>h1 {  font-family: 'Allura', cursive;  font-weight: 600;  font-size: 5.75rem;  }  .landing>p {  font-family: 'Ubuntu', sans-serif;  font-weight: 600;  font-size: 1.25rem;  letter-spacing: 0.2rem;  }  /\* Short Profile Section \*/  .shortProfile {  /\* background-color: #82DBD8; \*/  position: relative;  top: -12rem;  padding: 2.5rem 2.5rem 0.5rem;  margin-bottom: -12rem;  }  #profilePic {  width: 250px;  height: 250px;  border-radius: 50%;  padding-bottom: 2rem;  }  h3 {  font-weight: 700;  font-size: 2.25rem;  margin: 1rem;  }  h4 {  font-weight: 600;  font-size: 1.5rem;  margin-top: 1rem;  }  /\* Personal Details \*/  .personalDetails {  padding: 2rem;  }  h2 {  font-weight: 700;  font-size: 2.5rem;  margin: 2rem 0 0;  }  table {  text-align: left;  position: relative;  left: 30rem;  border-collapse: separate;  border-spacing: 10rem 2rem;  margin: 4rem 0;  }  td {  padding: 1rem;  }  h5 {  font-weight: 600;  font-size: 1rem;  margin: 0;  }  p {  font-weight: 500;  font-size: 1rem;  margin: 0;  }  /\* Skills \*/  .skill-row {  width: 35%;  margin: 100px auto;  text-align: left;  }  .skill-img {  width: 150px;  height: 150px;  border-radius: 50%;  }  .si1,  .si2,  .si3 {  float: left;  margin-right: 5rem;  }  /\*  .si2{  float: right;  margin-left: -3.5rem;  } \*/  .skill-text {  width: 100%;  line-height: 2;  }  .skill-text>h4 {  margin-bottom: -1rem;  position: relative;  left: -2.5rem;  }  /\* hobbies \*/  .hobbies-row {  width: 35%;  margin: 100px auto;  text-align: left;  }  .hobbies-img {  width: 150px;  height: 150px;  border-radius: 50%;  }  .hi1,  .hi2,  .hi3 {  float: right;  margin-right: 2.5rem;  }  /\*  .si2{  float: right;  margin-left: -3.5rem;  } \*/  .hobbies-text {  width: 100%;  line-height: 2;  }  .hobbies-text>h4 {  margin-bottom: -1rem;  }  /\* Future Plans \*/  .plans-row {  width: 35%;  margin: 100px auto;  text-align: left;  }  .plans-img {  width: 150px;  height: 150px;  border-radius: 50%;  }  .pi1,  .pi2,  .pi3 {  float: left;  margin-right: 5rem;  }  /\*  .pi2{  float: right;  margin-left: -3.5rem;  } \*/  .plans-text {  width: 100%;  line-height: 2;  }  .plans-text>h4 {  margin-bottom: -1rem;  position: relative;  left: -2.5rem;  }  /\* Contact Button \*/  #contactBtn {  padding: 1rem 2.5rem;  background-color: #0c515c;  border: none;  border-radius: 40px;  margin: 3rem 0;  color: whitesmoke;  font-family: 'Montserrat', sans-serif;  font-size: 1.5rem;  font-weight: 500;  transition: all 0.25s ease-in-out;  }  #contactBtn:hover {  color: white;  cursor: pointer;  background-color: #176d7a;  }  /\* Footer Section \*/  .footer{  background-color: #03506F;  }  .fa-brands{  font-size: 3rem;  color: white;  margin: 4rem 5rem 2rem;  padding: 0;  position: relative;  top: 0;  transition: all 0.25s ease-in-out;  }  .fa-brands:hover{  top: -1rem;  }  .footer>h5{  color: whitesmoke;  padding: 3.5rem 0 2.5rem;  } |

|  |  |
| --- | --- |
| QUE.5 | Create an HTML page with a paragraph written on it and under which 9 buttons are placed in a 3X3 grid. The first row is for buttons labeled with colors names Red, Green, and Blue, the second row with numbers 10, 20, 30, and the third row with different font names. Click event of each of the buttons should make the appropriate change in the style of paragraph. |
|  | **HTML FILE**  <!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>3x3 Grid</title>  <link rel="stylesheet" href="./style1.css">  </head>  <body>  <p>Atma Ram Sanatan Dharma College is a premier educational institution of Delhi University which aims to nurture excellence in education. It emphasizes on fostering the quality of human resources and promoting productive ideas that benefit the students. Since its inception, the College as focused on character building and idealism inspired by Sanatani values. The College embraces Inclusivity and Equitability as its founding principles. Promotion of women’s education and ensuring a barrier-free, nondiscriminatory, and supportive ecosystem for all members of the College are, therefore, a priority at ARSD College.The College is concerned primarily with creating an institution in tune with contemporary demands and enabling the holistic development of all its stakeholders. College’s exponential growth over the past few years, its emphasis on undergraduate research, entrepreneurial initiatives, skill development, strong industry-institution linkages, and ICT-enabled learning environments, are geared towards the facilitation of sustainable and self-sufficient systems as well as institutions. The motto of the College, Tejasvi-naavadhitam-astu, has been taken from Taittriya Upanishad and means, “May our learning be endowed with radiance”. The College takes pride in its past achievements and looks to the future with great hope and determination.</p>    <hr>  <main class="grid">  <button id="c-red">Red</button>  <button id="c-green">Green</button>  <button id="c-blue">Blue</button>  <button id="s-10">10</button>  <button id="s-20">20</button>  <button id="s-30">30</button>  <button id="f-ss">Sans Serif</button>  <button id="f-s">Serif</button>  <button id="f-m">Monospace</button>  </main>  <script src="./script1.js"></script>  </body>  </html>  **CSS FILE**  body{  display: flex;  flex-direction: column;  width: 70%;  background: #ffffff;  color: rgb(0, 0, 0);  align-items: center;  margin: 0 auto;  line-height: 2;  font-family: cursive;  }  hr{  width: 40%;  }  .grid{  width: 70%;  display: grid;  grid-template-columns: repeat(3, 1fr);  margin: 1.25rem 0 4rem;  }  button{  padding: 1.7rem 2rem;  background-color: #488FB1;  color: whitesmoke;  font-size: 1.25rem;  border: none;  border-radius: 40px;  margin: 10px;  }  button:hover{  background: #71bde0;  cursor: pointer;  }  **OUTPUT** |

|  |  |
| --- | --- |
| QUE.4 | Create an HTML page with the sole purpose to show multiplication tables of 2 to 10 (row-wise) created by JavaScript. Initially, the page is blank. With help of setInterval function print a row every 5 seconds in different colors and increasing font size. |
|  | **HTML 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>Multiplication Table</title>  <link rel="stylesheet" href="./css/style.css">  </head>  <body>  <h1>Multiplication table</h1>  <main id="main"></main>  <script src="js.js"></script>  </body>  </html>  **JS FILE**  const mainEl = document.getElementById('main');  var i = 2;  var j = 1;  var t = 1;  var colors = ['#002B5B', '#AAC4FF', '#8BBCCC', '#006778', '#FF5677'];  const childhead = document.createElement('h3');  childhead.innerHTML = `Table of ${i}`;  mainEl.appendChild(childhead);  setInterval(() => {  if (j > 10) {  i++;  j = 1;  const childhead = document.createElement('h3');  childhead.innerHTML = `Table of ${i}`;  childhead.style.color = colors[(j - 1) % 5];  childhead.style.fontSize = `${t}rem`;  mainEl.appendChild(childhead);  }  if (i > 10) return;  const child = document.createElement('h5');  child.innerHTML = `${i} \* ${j} = ${i \* j}`;  child.style.color = colors[(j - 1) % 5];  child.style.fontSize = `${t}rem`;  mainEl.appendChild(child);  window.scrollTo(0, document.body.scrollHeight);  j++;  t += 0.05;  }, 5000);  **OUTPUT** |

|  |  |
| --- | --- |
| QUE.1 | Display your systems IP Address, Subnet mask using ipconfig, and find out the network address and the maximum number of systems possible on your network and range of IP addresses available to these systems. |
|  |  |

|  |  |
| --- | --- |
| QUE.2 | With help of ping, check if you are connected to other systems of your network and find the route to connect to that system using tracert. List all the processes which are using ports for TCP protocol. |
|  |  |