

**INTERNAL ASSIGNMENT **

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**Course Code: OMC-108**

**Course Title: Full Stack Development Laboratory**

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**Student Id: 233512013**

Answer any four.

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| **Q.No.** | **Question** |
| 1 | Create an XHTML page that provides information about the MCA department, at Graphic Era University. The XHTML page must use the following tags:   * Links - Anchor tag * Images * Tables   (If needed use other tags for better presentation)  <?xml version="1.0" encoding="UTF-8"?>  <!DOCTYPE html>  <html xmlns="https://www.w3.org/1999/xhtml/">  <head>      <title>MCA Department at Graphic Era University</title>      <style>          table {  *width*: 100%;  *border-collapse*: collapse;          }          th, td {  *border*: 1px solid black;  *padding*: 8px;  *text-align*: left;          }      </style>  </head>  <body>      <h1>MCA Department at Graphic Era University</h1>      <h2>About</h2>      <p>The MCA (Master of Computer Applications) department at Graphic Era University is renowned for its quality education and experienced faculty.</p>      <h2>Programs Offered</h2>      <ul>          <li><a href="https://www.geu.ac.in/programs/mca">MCA Program</a></li>      </ul>      <h2>Gallery</h2>      <img src="assets/mca\_department.jpg" alt="MCA Department at Graphic Era University" width="500"/>      <h2>Faculty Directory</h2>      <table>          <tr>              <th>Name</th>              <th>Designation</th>              <th>Email</th>          </tr>          <tr>              <td>Ms. Vaishnavi T.</td>              <td>Assistant Professor</td>              <td>vaishnavi.t@geu.ac.in </td>          </tr>          <tr>              <td>Info DDOE</td>              <td>Inquiries & Helpline </td>              <td>info.ddoe@geu.ac.in</td>          </tr>      </table>      <h2>Contact Information</h2>      <p>For inquiries and more information, please contact:</p>      <p>Graphic Era University,<br/>566/6, Bell Road, Clement Town Dehradun-248002, Uttarakhand, India</p>      <p>Phone: +91-135-2643420, 2642727<br/>Email: info@geu.ac.in</p>  </body>  </html> |
| 2 | Write a JavaScript function called "SumofDigits" that accepts a number as a parameter and returns the sum of all digits of that number. Test the function with different inputs. Write the JavaScript function in a separate .js file.  *const* readline = require("readline");  *const* rl = readline.createInterface({      input: process.stdin,      output: process.stdout,  });      *function* SumofDigits(*number*) {  *let* numString = *number*.toString();  *let* sum = 0;        for (*let* i = 0; i < numString.length; i++) {          sum += parseInt(numString[i]);      }        return sum;  }    rl.question("Enter the number: ", *function* (*answer*) {      console.log(`The sum of digits is:  ${SumofDigits(*answer*)}`);      rl.close();  }); |
| 3 | Create an XHMTL page with 3 paragraphs displayed using different colors. Implement a JavaScript function that changes the font color of a paragraph to blue when a user hovers over it and reverts it back to the original color when the  mouse leaves.  <?xml version="1.0" encoding="UTF-8"?>  <!DOCTYPE html>  <html xmlns="https://www.w3.org/1999/xhtml/">  <head>      <title>Paragraph Color Change</title>      <style>          #para1 {  *color*: red;          }          #para2 {  *color*: green;          }          #para3 {  *color*: black;          }      </style>      <script>  *function* changeColorToBlue(*paraId*) {              document.getElementById(*paraId*).style.color = 'blue';          }    *function* revertColor(*paraId*, *originalColor*) {              document.getElementById(*paraId*).style.color = *originalColor*;          }      </script>  </head>  <body>      <p id="para1" onmouseover="changeColorToBlue('para1')" onmouseout="revertColor('para1', 'red')">Paragraph 1 - Hover over me to change color to Blue!</p>      <p id="para2" onmouseover="changeColorToBlue('para2')" onmouseout="revertColor('para2', 'green')">Paragraph 2 - Hover over me to change color to Blue!</p>      <p id="para3" onmouseover="changeColorToBlue('para3')" onmouseout="revertColor('para3', 'black')">Paragraph 3 - Hover over me to change color to Blue!</p>  </body>  </html> |
| 5 | Create a React Application to display the message “Developing using ReactJS, Graphic Era University”.  import logo from './logo.svg';  import logo\_geu from './GEU.jpeg';  import './App.css';  *function* App() {    return (      <div className="App">        <header className="App-header">          <img src={logo} className="App-logo" alt="logo" />          <img src={logo\_geu} className="geu-logo" alt="logo" height="200" />          <p>            {/\* Edit <code>src/App.js</code> and save to reload. \*/}            Developing using React.JS, Graphic Era University.          </p>          <a            className="App-link"            href="https://reactjs.org"            target="\_blank"            rel="noopener noreferrer"          >            {/\* Learn React \*/}          </a>        </header>      </div>    );  }  export default App; |