

Web Programming Laboratory SET - 2

These are possible answers only please do not blindly memorise.
Use this as reference

- 1) Create a HTML application with links, tables and other tags for a Super market and also do the necessary client side validation using Java script for availability of products.**

Index.html

```
<!DOCTYPE html>

<html>
    <head>
        <link rel="stylesheet" href="index.css">

        <title>SuperMarket</title>
    </head>

    <script>
        function searchProduct() {
            var input, filter, table, tr, td, i, txtValue;
            input = document.getElementById("myInput");
            filter = input.value.toUpperCase();
            table = document.getElementById("productTable");
            tr = table.getElementsByTagName("tr");
            for (i = 0; i < tr.length; i++) {
                td = tr[i].getElementsByTagName("td")[0];
                if (td) {
                    txtValue = td.textContent || td.innerText;
                    if (txtValue.toUpperCase().indexOf(filter) > -1) {
                        tr[i].style.display = "";
                    } else {
                        tr[i].style.display = "none";
                    }
                }
            }
        }
    </script>
<body>
```

```

<h1>WP SUPER MARKET</h1>
<ul>
    <li>Ph: 9965309209</li>
    <li>mail: wp2022@gmail.com</li>
    <li>Address: Akshya Nagar 1st Block 1st Cross, Rammurthy
nagar, Bangalore-560016</li>
</ul>

<input type="text" id="myInput" onkeyup="searchProduct()" 
placeholder="Search for Product.." title="Type in a name">

<table id="productTable">
    <tr>
        <th>Name</th>
        <th>Price</th>
        <th>Availability</th>
    </tr>
    <tr>
        <td>Pack of chicken breast 500g</td>
        <td>Rs.300</td>
        <td>Yes</td>
    </tr>
    <tr>
        <td>Liter of semi-skimmed milk</td>
        <td>Rs.40</td>
        <td>Yes</td>
    </tr>
    <tr>
        <td>Kg of Greek yogurt</td>
        <td>Rs.560</td>
        <td>Yes</td>
    </tr>
    <tr>
        <td>One Cucumber</td>
        <td>Rs.60</td>
        <td>Yes</td>
    </tr>
    <tr>
        <td>A bag of 3 peppers</td>
        <td>Rs.300</td>
    </tr>

```

```
<td>Yes</td>

</tr>
<tr>
    <td>Two Pizzas</td>
    <td>Rs. 250</td>
    <td>Yes</td>

</tr>

<tr>
    <td>A bag of 8 buns</td>
    <td>Rs. 120</td>
    <td>Yes</td>

</tr>
<tr>
    <td>Packs of oatmeal</td>
    <td>Rs. 80</td>
    <td>Yes</td>

</tr>
<tr>
    <td>Pack of rice cakes</td>
    <td>Rs. 210</td>
    <td>Yes</td>

</tr>

<tr>
    <td>Two Cans of chopped tomatoes</td>
    <td>Rs. 110</td>
    <td>no</td>

</tr>
<tr>
    <td>Box of tea</td>
    <td>Rs. 60</td>
    <td>Yes</td>

</tr>
<tr>
    <td>Packet of cookies</td>
```

```
<td>Rs .130</td>
<td>no</td>

</tr>
</table>
</body>
</html>
```

Index.css

```
#myInput {
    background-position: 10px 12px;
    background-repeat: no-repeat;
    width: 50%;
    font-size: 16px;
    padding: 12px 20px 12px 40px;
    border: 1px solid #ddd;
    margin-bottom: 12px;
}

table {
    font-family: arial, sans-serif;
    border-collapse: collapse;
    width: 100%;
}

td, th {
    border: 1px solid #dddddd;
    text-align: left;
    padding: 8px;
}

tr:nth-child(even) {
    background-color: #dddddd;
}
```

Output:

WP SUPER MARKET

- Ph: 9965309209
- mail: wp2022@gmail.com
- Address: Akshya Nagar 1st Block 1st Cross, Rammurthy nagar, Bangalore-560016

Name	Price	Availability
Pack of chicken breast 500g	Rs.300	Yes
Liter of semi-skimmed milk	Rs.40	Yes
Kg of Greek yogurt	Rs.50	Yes
One Cucumber	Rs.60	Yes
A bag of 3 peppers	Rs.300	Yes
Two Pizzas	Rs.250	Yes
A bag of 8 buns	Rs.120	Yes
Packs of oatmeal	Rs.80	Yes
Pack of rice cakes	Rs.210	Yes
Two Cans of chopped tomatoes	Rs.110	no
Box of tea	Rs.60	Yes
Packet of cookies	Rs.130	no

2) Create a static web page using cascading style sheets for an Automobile Company which markets and sells cars. Use at least five hyperlinks. Also embed images in the web page you are creating

EXAMPLE:

<https://drive.google.com/drive/folders/1eU-OtuSK51wltdzbjG4cEwljTvoJwmmL?usp=sharing>

3) Create an XML document for the following data and validate against DTD.

EMPLOYEE (ENO, NAME, GENDER, DOB, DOJ, DESIGNATION, BASIC, DEPT_NO, PAN)
DEPARTMENT (DEPT_NO, NAME, MENO)
PROJECT (PROJ_NO, NAME, DEPT_NO)

WORKSFOR (ENO, PROJ_NO, DATE_WORKED, HOURS)

```
<?xml version="1.0" encoding="UTF-8"?>

<!DOCTYPE DETAILS [


    <!ELEMENT DETAILS (EMPLOYEE+)>

    <!ELEMENT EMPLOYEE (ENO, NAME, GENDER, DOB, DOJ, DESIGNATION, BASIC,
PAN,DEPARTMENT,PROJECT,WORKSFOR)>

    <!ELEMENT ENO (#PCDATA)>
]
```

```

<!ELEMENT NAME (#PCDATA)>

<!ELEMENT GENDER (#PCDATA)>

<!ELEMENT DOB (#PCDATA)>

<!ELEMENT DOJ (#PCDATA)>

<!ELEMENT DESIGNATION (#PCDATA)>

<!ELEMENT BASIC (#PCDATA)>

<!ELEMENT PAN (#PCDATA)>

<!ELEMENT DEPARTMENT (DEPT_NO, DEP_NAME, MENO)>

<!ELEMENT DEPT_NO (#PCDATA)>

<!ELEMENT DEP_NAME (#PCDATA)>

<!ELEMENT MENO (#PCDATA)>

<!ELEMENT PROJECT (PROJ_NO, PROJ_NAME, PROJ_DEPT_NO)>

<!ELEMENT PROJ_NO (#PCDATA)>

<!ELEMENT PROJ_NAME (#PCDATA)>

<!ELEMENT PROJ_DEPT_NO (#PCDATA)>

<!ELEMENT WORKSFOR (WORKSFOR_ENO, WORKSFOR_PROJ_NO, DATE_WORKED, HOURS)>

<!ELEMENT WORKSFOR_ENO (#PCDATA)>

<!ELEMENT WORKSFOR_PROJ_NO (#PCDATA)>

<!ELEMENT DATE_WORKED (#PCDATA)>

<!ELEMENT HOURS (#PCDATA)>

]>

<DETAILS>

<EMPLOYEE>

<ENO>1</ENO>

<NAME>Rajesh</NAME>

<GENDER>male</GENDER>

```

```
<DOB>1999</DOB>

<DOJ>2020</DOJ>

<DESIGNATION>SDE</DESIGNATION>

<BASIC>70000</BASIC>

<PAN>4823724839473</PAN>

<DEPARTMENT>

    <DEPT_NO>123</DEPT_NO>

    <DEP_NAME>CS</DEP_NAME>

    <MENO>1</MENO>

</DEPARTMENT>

<PROJECT>

    <PROJ_NO>1</PROJ_NO>

    <PROJ_NAME>Project1</PROJ_NAME>

    <PROJ_DEPT_NO>123</PROJ_DEPT_NO>

</PROJECT>

<WORKSFOR>

    <WORKSFOR_ENO>1</WORKSFOR_ENO>

    <WORKSFOR_PROJ_NO>1</WORKSFOR_PROJ_NO>

    <DATE_WORKED>2020-01-01</DATE_WORKED>

    <HOURS>8</HOURS>

</WORKSFOR>

</EMPLOYEE>

</DETAILS>
```

OUTPUT:

This XML file does not appear to have any style information associated with it. The document tree is shown below.

```
<!DOCTYPE html>
<html>
  <head>
    <title>KMCH SITE</title>
  </head>
  <style>
    body{
      background-image: url('hos.jpg');
      background-repeat: no-repeat;
      background-attachment: fixed;
      background-size: 100% 100%;
    }
    .inner-content{
      color: white;
      font-weight: bold;
    }
  </style>
  <table >
    <thead>
      <tr>
        <th>Employee ID</th>
        <th>Employee Name</th>
        <th>Department Name</th>
        <th>Project Name</th>
        <th>Worked On</th>
      </tr>
    </thead>
    <tbody>
      <tr>
        <td>1</td>
        <td>Rajesh</td>
        <td>CS</td>
        <td>Project1</td>
        <td>2020-01-01</td>
      </tr>
    </tbody>
  </table >
</body>
</html>
```

- 4) Create a static webpage with links, tables and other tags that will provide information about the services provided in KMCH Multi Specialty Hospital.

```
<!DOCTYPE html>
<html>
  <head>
    <title>KMCH SITE</title>
  </head>
  <style>
    body{
      background-image: url('hos.jpg');
      background-repeat: no-repeat;
      background-attachment: fixed;
      background-size: 100% 100%;
    }
    .inner-content{
      color: white;
      font-weight: bold;
    }
  </style>
  <table >
    <thead>
      <tr>
        <th>Employee ID</th>
        <th>Employee Name</th>
        <th>Department Name</th>
        <th>Project Name</th>
        <th>Worked On</th>
      </tr>
    </thead>
    <tbody>
      <tr>
        <td>1</td>
        <td>Rajesh</td>
        <td>CS</td>
        <td>Project1</td>
        <td>2020-01-01</td>
      </tr>
    </tbody>
  </table >
</body>
</html>
```

```

border-collapse: collapse;
width: 100%;
}

td, th {
    border: 1px solid #dddddd;
    text-align: left;
    padding: 8px;
}

tr:nth-child(even) {
    background-color: #dddddd;
}

</style>
<body>
<div>
<h1>KMCH <img alt="Logo of KMCH" style="vertical-align: middle;"></h1>

<div>
<section class="inner-content">
<aside class="cont-right">
<h2 class="page-title">Overview</h2>
<div class="single-col">
<p style="text-align: justify;">A Health Care Provider  
of Western Approach with an Indian Touch.</p>
<p style="text-align: justify;">KMCH is the most  
trusted Multispecialty Hospital in the Southern Indian City of  
Coimbatore.</p>
<p style="text-align: justify;">The relentless service  
of KMCH in the past 26 years, taken health care to the most modern  
levels in the region catering to urban and rural population.</p>
<div class="clear" style="text-align: justify;"></div>
<h4 class="name-head name-head1" style="text-align: justify;">KMCH has established its name in multiple specialties such as  
its:</h4>
<div class="list-pad" style="text-align: justify;">
<ul>
<li><strong>Heart Institute</strong> -<br>
        - Bypass operation, heart transplant, valve repair,  
further more we have...<br>
        - The region's only heart rhythm specialist  
(Electro physiologist).<br>

```

- The region's only established Paediatrics

Cardiologist.

Multi Organ Transplant Center - Heart & Lung, Liver, Kidney and Bone Marrow.

Comprehensive Cancer Center - Medical Oncology, Surgical Oncology, Radiation Oncology, Nuclear Medicine & PET.

Interventional Radiology - A pioneer in the field of IR advocating methods of expertise to institution across the Globe.

OBG - High risk pregnancies and Fertility Center

Paediatrics - 26 years of unblemishing track record in treating neonates and infants.

Critical Care & Trauma - In emergencies we handle life threatening situations through world class trained Doctors and Intensivists.

Orthopaedics - Hip and Knee Replacement and complex deformity correction.

Others as well,... Endocrinology, Diabetes management, Rheumatology, GI, Pulmonology, Interventional Pulmonology with EBUS, Psychiatry, Cosmetic surgery, ENT, Dermatology, Hematology, Urology, Nephrology and Paediatric Surgery.

</div>

<p style="text-align: justify;">We believe in bringing the most modern techniques and delivering extraordinary care to ailing population with the highest levels of ethics and standards.</p>

<p style="text-align: justify;">We are committed to continuing medical education, through our fellowship and DNB programs.</p>

<p style="text-align: justify;">We organize atleast one conference a month and support research foundation for continued advancement.</p>

<p style="text-align: justify;">"No matter what your problems are, we receive you with care, so you go back with a smile."</p>

</div>

</aside>

</div>

</section>

</div>

Department	Details	Source
Orthopedics And Joint Replacement	<p>The department of Orthopaedics & Trauma is known for advanced joint replacement surgery, major complex trauma including pelvic-acetabular fracture management, arthroscopic knee surgeries, paediatric orthopaedic surgeries, spine surgeries, deformity correction and bone tumour management.</p>	Link
Nuclear Medicine & PET CT	<p>This newly opened world class department offers the best currently available imaging platform to patients at affordable cost. This department enables a one-stop-imaging solution in various fields of Medicine & Surgery including Cardiology, Nephrology, Endocrinology, Paediatrics, Orthopaedics in addition to Oncolog</p>	Link
Neurosciences	<p>Neurology Department is guided by internationally accepted protocol and integrated care pathways. The busy department has 3 consultants and treats over 200 outpatients and 50 inpatients every day. It has a dedicated ICU with 11 beds for stroke, head injury and other serious neurological conditions. A large number of patients are treated with focus on stroke, epilepsy, head ache, movement disorders and neuromuscular disorders.</p>	

<p>Link</p>
<p>KMCH Liver Institute</p> <p>The Liver Institute at KMCH offers a multidisciplinary team approach which is essential for successful patient outcomes. It is a comprehensive, multidisciplinary disease-management center specializing in diseases of the liver, bile ducts and pancreas.</p>
<p>Link</p>
<p>Interventional Radiology & Imaging Sciences</p> <p>Interventional Radiology department headed by Dr Mathew Cherian has world class facilities and boasts of a Cath Lab with Artiz Zee Biplane & the best tools in the world of CT angiography. Since 1991, it has been doing specialised work in the area of minimally invasive procedures in Brain & Spinal Cord surgeries, Vascular and Non-vascular diagnosis and treatment.</p>
<p>Link</p>
<p>Comprehensive Cancer Center</p> <p>A state of the art Comprehensive Cancer care Center was set up by KMCH in 2010-11. KMCH's sophisticated cancer care center spread over 10 lakh sq.ft of serene ambience is comparable to top international cancer centers. It has 200 beds with special suites for cancer patients. A cheerful ambience and compassionate treatment help the patients and visitors to overcome the cold feel of a hospital.</p>

```
</td>
<td><a href="https://kmchhospitals.com/cancer-treatment/">Link</a></td>
</tr>
</table>
</div>

<div>
<h1>Contact</h1>

<p>
<address style="color: white;">
    99, Avanashi Road,
    Coimbatore-641014, TamilNadu, India.
    Phone :+91 422 4323800-802, 3083800
    Email : getwell@kmchhospitals.com
    Web :www.kmchhospitals.com
    CIN: L85110TZ1985PLC001659
</address>

</p>
</div>
</body>
</html>
```

Output:

KMCH 

Overview

A Health Care Provider of Western Approach with an Indian Touch.

KMCH is the most trusted Multispecialty Hospital in the Southern Indian City of Coimbatore.

The relentless service of KMCH in the past 26 years, taken health care to the most modern levels in the region catering to urban and rural population.

KMCH has established its name in multiple specialties such as its:

- Heart Institute –
 - Bypass operation, heart transplant, valve repair; further more we have...
 - The region's only heart rhythm specialist (Electro physiologist).
 - The region's only established Paediatrics Cardiologist.
- Multi Organ Transplant Center – Heart & Lung, Liver, Kidney and Bone Marrow.
- Comprehensive Cancer Center – Medical Oncology, Surgical Oncology, Radiation Oncology, Nuclear Medicine & PET.
- Interventional Radiology – A pioneer in the field of IR advocating methods of expertise to institution across the Globe.
- OBG – High risk pregnancies and Fertility Center.
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- Critical Care & Trauma – In emergencies we handle life threatening situations through world class trained Doctors and Intensivists.
- Orthopaedics – Hip and Knee Replacement and complex deformity correction.
- Others as well,... Endocrinology, Diabetes management, Rheumatology, GI, Pulmonology, Interventional Pulmonology with EBUS, Psychiatry, Cosmetic surgery, ENT, Dermatology, Hematology, Urology, Nephrology and Paediatric Surgery.

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KMCH Liver Institute	The Liver Institute at KMCH offers a multidisciplinary team approach which is essential for successful patient outcomes. It is a comprehensive, multidisciplinary disease-management center specializing in diseases of the liver, bile ducts and pancreas.	Link
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Comprehensive Cancer Center	A state of the art Comprehensive Cancer care Center was set up by KMCH in 2010-11. KMCH's sophisticated cancer care center spread over 10 lakh sq.ft of serene ambience is comparable to top international cancer centers. It has 200 beds with special suites for cancer patients. A cheerful ambience and compassionate treatment help the patients and visitors to overcome the cold feel of a hospital.	Link

- 5) Create a web page with the following.

 - i) Cascading style sheets.
 - ii) Embedded style sheets.
 - iii) Inline style sheets. Use our college information for the web pages.

Index.html

```
<html>
  <head>
    <title>External style sheet</title>
    <link rel="stylesheet" href="index.css">
  </head>

  <style>
    button {
      transition-duration: 0.4s;
      text-align: center;
      font-size: 20px;
    }

    button:hover {
      background-color: blue;
      color: white;
    }
  </style>

  <body>
    <div id="navbar">
      <ul>
        <li>HOME</li>
        <li>SERVICES</li>
        <li>ABOUT</li>
        <li>CONTACT</li>
      </ul>
    </div>
    <div id="container">
      
      <p style="text-align: center;">C programming is a general-purpose, procedural, imperative computer programming language developed in 1972 by Dennis M. Ritchie at the Bell Telephone Laboratories to develop the UNIX operating system. C is the most widely used computer language.
    </div>
  </body>
</html>
```

```
•           It keeps fluctuating at number one scale of popularity
•           along with Java programming language, which
•           is also equally popular and most widely used among modern
•           software programmers.</p>
•
•           </div>
•
•           <h3 style="margin: 10%; ">Want to learn more?<br><br><button>Click
•           here!</button></h3>
•
•           </body>
•
•           </html>
```

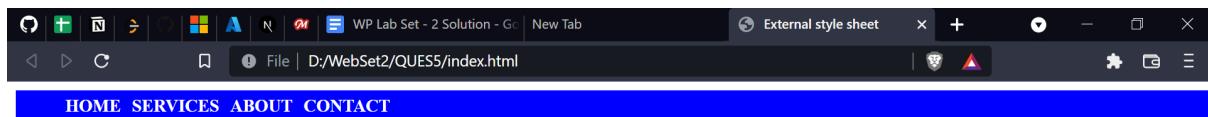
Index.css

```
ul li {
    float: left;
    list-style-type: none;
}

li {
    color: white;
    font-weight: bold;
    padding: 5px;
}

ul {
    background-color: blue;
    height: 30px;
    width: 100%;
}
```

Output



C programming is a general-purpose, procedural, imperative computer programming language developed in 1972 by Dennis M. Ritchie at the Bell Telephone Laboratories to develop the UNIX operating system. C is the most widely used computer language. It keeps fluctuating at number one scale of popularity along with Java programming language, which is also equally popular and most widely used among modern software programmers.

Want to learn more?

[Click here!](#)



6) Design a form using Ajax that contains a text field and a pushbutton. The user should enter a customer ID and press the button, and should see (in the same page) either:

- A bulleted list of the id, first name, last name, and balance of the person with that ID.
- An error message for an unknown/missing id
-

Index.html

```
<!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>Document</title>
</head>

<body>
    <div class="container">
        <h2>User Details</h2>
        <input type="text" id="uname" placeholder="Enter User Id"><br><br>
        <button id="btn" onclick="submit()">Submit</button>
    </div>
    <br>
    <div>
        <ul id="result"></ul>
    </div>
</body>
```

```
</div>
</body>
<script src="script.js"></script>

</html>
```

data.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<userlist>
  <user>
    <userid>1</userid>
    <fname>Gouse</fname>
    <sname>DSNR</sname>
    <balance>8801550101</balance>
  </user>
  <user>
    <userid>2</userid>
    <fname>D Divakar</fname>
    <sname>Ameerpet</sname>
    <balance>9888888888</balance>
  </user>
  <user>
    <userid>3</userid>
    <fname>Rajinth</fname>
    <sname>SR Nagar</sname>
    <balance>9866666666</balance>
  </user>
</userlist>
```

script.js

```
function submit() {
  let flag = 0;
  const id = document.getElementById("uname").value;
  const xhttp = new XMLHttpRequest();
  xhttp.onreadystatechange = function () {
    if (this.readyState == 4 && this.status == 200) {
      const data = xhttp.responseText;
      let parser = new DOMParser();
      let xml = parser.parseFromString(data, "application/xml");
      let userid = xml.getElementsByTagName("userid");
      let fname = xml.getElementsByTagName("fname");
      let sname = xml.getElementsByTagName("sname");
      let balance = xml.getElementsByTagName("balance");

      for (let i = 0; i < userid.length; i++) {
        if(userid[i].firstChild.nodeValue == id){
          flag = 1;
```

```

        const html = `<li>id - ${userid[i].firstChild.nodeValue}</li>
<li>first name - ${fname[i].firstChild.nodeValue}</li>
<li>second name - ${sname[i].firstChild.nodeValue}</li>
<li> balance - ${balance[i].firstChild.nodeValue}</li>`
document.getElementById("result").innerHTML = html
    }
}
if(flag === 0){
    document.getElementById("result").innerHTML = "Invalid User";
}
};

xhttp.open("GET", "data.xml", true);
xhttp.send();
}

```

OUTPUT:

User Details

Submit

- id - 1
- first name - Gouse
- second name - DSNR
- balance - 8801550101

7) Create a registration form with the following fields

- *Name (Text field)*
- *Password (Password field)*
- *Email id (Text field)*
- *Phone Number (Text field)*
- *Date of birth (3 select boxes)*
- *Languages known (checkboxes – English, Tamil, Hindi, Telugu)*
- *Address (Text area)*

Write JavaScript to validate the following fields

- *Name should contain alphabets and the length should not be less than 15 characters.*
- *Email-Id should not contain any invalid characters and must follow the standard pattern (name@domain.com)*

```
<!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>Sign Up</title>
</head>

<body>
    <label>Name : </label>
    <input type="text" name='name' id='name' placeholder="Enter your name">
    <br><br>

    <label>Password</label>
    <input type="password" name="password"><br><br>

    <label>Email Id</label>
    <input type="email" name="email" id='email'><br><br>

    <label>Phone Number</label>
    <input type="number" name="phone"><br><br>

    <label>Date of birth : </label>
    <select name="day">
        <option value="1">1</option>
        <option value="2">2</option>
        <option value="3">3</option>
        <option value="4">4</option>
```

```
<option value="5">5</option>
<option value="6">6</option>
<option value="7">7</option>
<option value="8">8</option>
<option value="9">9</option>
<option value="10">10</option>
<option value="11">11</option>
<option value="12">12</option>
<option value="13">13</option>
<option value="14">14</option>
<option value="15">15</option>
<option value="16">16</option>
<option value="17">17</option>
<option value="18">18</option>
<option value="19">19</option>
<option value="20">20</option>
<option value="21">21</option>
<option value="22">22</option>
<option value="23">23</option>
<option value="24">24</option>
<option value="25">25</option>
<option value="26">26</option>
<option value="27">27</option>
<option value="28">28</option>
<option value="29">29</option>
<option value="30">30</option>
<option value="31">31</option>
</select>
<select name="month">
```

```

<option value="1">1</option>
<option value="2">2</option>
<option value="3">3</option>
<option value="4">4</option>
<option value="5">5</option>
<option value="6">6</option>
<option value="7">7</option>
<option value="8">8</option>
<option value="9">9</option>
<option value="10">10</option>
<option value="11">11</option>
<option value="12">12</option>
</select>

<select name="year">
    <option value="1998">1998</option>
    <option value="1999">1999</option>
    <option value="2000">2000</option>
    <option value="2001">2001</option>
    <option value="2002">2002</option>
    <option value="2003">2003</option>
</select><br><br>

<label>Languages known : </label>
<input type="checkbox" name="lang" value="English">English
<input type="checkbox" name="lang" value="Tamil">Tamil
<input type="checkbox" name="lang" value="Hindi">Hindi
<input type="checkbox" name="lang" value="Telugu">Telugu
<br><br>
```

```

<label>Address : </label>

<textarea name="address" rows="5" cols="30"></textarea>

<br><br>

<button onclick="validate()">submit</button>

<script>

function validate() {

    const name = document.getElementById("name").value;
    const name_regex = /^[a-zA-Z]/;
    if (!(name_regex.test(name) && name.length > 15)) {
        alert("Name should contain alphabets and the length should not be less than 15 characters");
        return;
    }

    const email = document.getElementById("email").value;
    const email_regex = /^[a-zA-Z0-9._-]+@[a-zA-Z0-9.-]+\.[a-zA-Z]{2,4}$/;
    if (!(email_regex.test(email))) {
        alert("Email-Id should not contain any invalid characters and must follow the standard pattern")
        return;
    }

    alert("Form submitted successfully");
}

</script>

```

```
</body>
```

```
</html>
```

OUTPUT:

The screenshot shows a web browser window with a sign-up form. The browser's toolbar at the top includes icons for Facebook (fb), Google, Gmail basic, and Imported from Chr... The main content area contains fields for Name, Password, Email Id, Phone Number, Date of birth (with dropdown menus for day, month, and year), and Languages known (checkboxes for English, Tamil, Hindi, Telugu). Below these is a large text area for comments and an Address field. A 'submit' button is at the bottom left. A modal dialog box is overlaid on the page, displaying the message "127.0.0.1:5500 says" and "Name should contain alphabets and the length should not be less than 15 characters" in white text on a black background. An "OK" button is in the bottom right corner of the dialog.

8) Design a Job Registration form/Sign Up form using HTML. [The Form should contains Text box [name], Radio button [gender], Text area [comments], List Items[country], Date /DOB/, Label Field, Password field [password] and check box.

```
<!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>Sign Up</title>
</head>

<body>
    <form action="">
        <label>Name : </label>
        <input type="text" name='name' placeholder="Enter your name">
```

```
<br><br>

<label>Gender : </label>
<input type="radio" name="gender" value="Male"> Male
<input type="radio" name="gender" value="Female"> Female<br><br>

<label>Comments : </label>
<textarea rows="4" cols="30" name="comments"></textarea> <br><br>

<label>Country : </label>
<select name="country">
    <option value="ind">IND</option>
    <option value="usa">USA</option>
    <option value="uk">UK</option>
</select> <br><br>

<label for="dob">DOB : </label>
<input type="date" name="dob"> <br><br>

<label>Password</label>
<input type="password" name="password"><br><br>

<label>Remember me</label>
<input type="checkbox" name="remember"><br><br>

    <button type="submit">submit</button>
</form>

</body>

</html>
```

OUTPUT:

Name :

Gender : Male Female

Comments :

Country :

DOB :

Password

Remember me

9) Create the XML data for bookstore with a collection of CSE/fifth semester books with element title, author, price and publication AND VALIDATE using DTD.

```
<?xml version="1.0" encoding="UTF-8"?>
```

```
<!DOCTYPE bookstore [  
<!ELEMENT bookstore (book+)>  
<!ELEMENT book (title,author,ISBN,publisher,edition,price)>  
<!ELEMENT title (#PCDATA)>  
<!ELEMENT author (#PCDATA)>  
<!ELEMENT ISBN (#PCDATA)>  
<!ELEMENT publisher (#PCDATA)>  
<!ELEMENT edition (#PCDATA)>  
<!ELEMENT price (#PCDATA)>  
]>
```

```
<bookstore>  
  <book>  
    <title>web programming</title>  
    <author>chrisbates</author>  
    <ISBN>123-456-789</ISBN>  
    <publisher>wiley</publisher>  
    <edition>3</edition>  
    <price>450</price>  
  </book>
```

```
<book>
  <title>CN</title>
  <author>ram</author>
  <ISBN>123-456-781</ISBN>
  <publisher>person</publisher>
  <edition>3</edition>
  <price>762</price>
</book>
<book>
  <title>MPMC</title>
  <author>stphen</author>
  <ISBN>123-456-781</ISBN>
  <publisher>person</publisher>
  <edition>31</edition>
  <price>237</price>
</book>
<book>
  <title>ST</title>
  <author>jhon</author>
  <ISBN>123-456-781</ISBN>
  <publisher>person</publisher>
  <edition>3</edition>
  <price>324</price>
</book>
</bookstore>
```

OUTPUT:

This XML file does not appear to have any style information associated with it. The document tree is shown below.

```
▼<bookstore>
  ▼<book>
    <title>web programming</title>
    <author>chrisbates</author>
    <ISBN>123-456-789</ISBN>
    <publisher>wiley</publisher>
    <edition>3</edition>
    <price>450</price>
  </book>
  ▼<book>
    <title>CN</title>
    <author>ram</author>
    <ISBN>123-456-781</ISBN>
    <publisher>person</publisher>
    <edition>3</edition>
    <price>762</price>
  </book>
  ▼<book>
    <title>MPMC</title>
    <author>stphen</author>
    <ISBN>123-456-781</ISBN>
    <publisher>person</publisher>
    <edition>31</edition>
    <price>237</price>
  </book>
  ▼<book>
    <title>ST</title>
    <author>jhon</author>
    <ISBN>123-456-781</ISBN>
    <publisher>person</publisher>
    <edition>3</edition>
    <price>324</price>
  </book>
</bookstore>
```

10) Write an Angular JS framework that allows users to design a order form with a total price updated in real time.

PROGRAM

```
<!DOCTYPE html>
<html>
<script
src="https://ajax.googleapis.com/ajax/libs/angularjs/1.6.9/angular.min.js"></script>
<body>
<style>
table {
  border-collapse: collapse;
}
th, td {
  padding: 10px;
  text-align: left;
}
</style>
```

```

<div ng-app="myApp" ng-controller="myCtrl">
<table border="1">
<tr>
<th>Name</th>
<th>Quantity</th>
<th>Price Per Item</th>
<th>Total Price</th>
<th>Add Item</th>
<th>Remove Item</th>
</tr>
<tr ng-repeat="product in products">
<td>{{product.name}}</td>
<td>{{product.quantity}}</td>
<td>Rs. {{product.price}}</td>
<td>Rs. {{product.quantity*product.price}}</td>
<td><button class="btn btn-primary" ng-click="add(product)"> ADD </button></td> <td><button class="btn btn-danger" ng-click="remove(product)"> REMOVE </button></td>
</tr>
</table>
<h2>Total Price: {{totalPrice}}</h2>
</div>

<script>
var app = angular.module('myApp', []);
app.controller('myCtrl', function ($scope) {
$scope.products = [
{
name: "Miranda",
quantity: 0,
price: 100
},
{
name: "Pepsi",
quantity: 0,
price: 75
},
{
name: "Fanta",
quantity: 0,
price: 85
},
{
name: "Fizz",
quantity: 0,
price: 80
},
]

```

```

        ]
        $scope.totalPrice = 0
        $scope.add = (product) => {
        if(product.quantity >= 0){
        product.quantity++;
        $scope.totalPrice = $scope.totalPrice + product.price
        }
        }
        $scope.remove = (product) => {
        if(product.quantity > 0){
        product.quantity--;
        $scope.totalPrice = $scope.totalPrice - product.price
        }
        }
    });

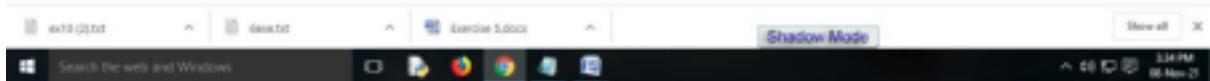
</script>
</body>
</html>

```

OUTPUT:

Name	Quantity	Price Per Item	Total Price	Add Item	Remove Item
Mirinda	0	Rs.100	Rs.0	<button>ADD</button>	<button>REMOVE</button>
Pepsi	0	Rs.75	Rs.0	<button>ADD</button>	<button>REMOVE</button>
Fanta	0	Rs.85	Rs.0	<button>ADD</button>	<button>REMOVE</button>
Fizer	0	Rs.80	Rs.0	<button>ADD</button>	<button>REMOVE</button>

Total Price: 0



Name	Quantity	Price Per Item	Total Price	Add Item	Remove Item
Mirinda	2	Rs.300	Rs.600	<input type="button" value="ADD"/>	<input type="button" value="REMOVE"/>
Pepsi	1	Rs.75	Rs.75	<input type="button" value="ADD"/>	<input type="button" value="REMOVE"/>
Fanta	1	Rs.85	Rs.85	<input type="button" value="ADD"/>	<input type="button" value="REMOVE"/>
Fizer	2	Rs.80	Rs.160	<input type="button" value="ADD"/>	<input type="button" value="REMOVE"/>

Total Price: 520



RESULT:

Thus the program to update the total price in real time has been executed and verified successfully.

11) Create and save an XML document at the server, which contains 10 users Information. Write a Program, which takes user Id as an input and returns the User details by taking the user information from the XML document.

Index.html

```
<!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">
    <link rel="stylesheet" href="style.css">
    <title>Document</title>
</head>
<body>
    <div class="container">
        <h2>User Details</h2>
```

```
<input type="text" id="uname" placeholder="Enter User  
Id"><br><br>  
    <button id="btn" onclick="okie()">Submit</button>  
</div>  
<br>  
<div>  
    <h3 id="result"></h3>  
</div>  
</body>  
<script src="script.js"></script>  
</html>
```

style.css

```
.container {  
    position: relative;  
    top: 10%;  
    left: 40%;  
}  
  
#btn {  
    margin-left: 65px;  
    padding: 10px;  
    padding-left: 25px;  
    padding-right: 25px;  
    font-size: small;  
    border: 1px solid black;  
    background-color: black;  
    color: white;  
    transition: 0.2s;  
}  
  
#btn:hover {  
    background-color: white;  
    border: 1px solid black;  
    color: black;  
}  
  
h2 {  
    margin-left: 45px;  
}  
  
input {  
    padding: 25px;  
    padding-left: 35px;  
    padding-right: 35px;  
    border: 0px;
```

```
    box-shadow: 0px 0px 10px 8px rgb(238, 238, 238);
}
input:focus {
    background-color: white;
    outline: none;
}
#result {
    margin-left: 30%;
    margin-top: 80px;
}
```

script.js

```
function okie() {
let id = document.getElementById("uname").value;
let flag = 0;
let url = "data.xml";
fetch(url)
.then((response) => response.text())
.then((data) => {
let parser = new DOMParser();
let xml = parser.parseFromString(data, "application/xml");
let userid = xml.getElementsByTagName("userid");
let username = xml.getElementsByTagName("username");
let address = xml.getElementsByTagName("address");
let phone = xml.getElementsByTagName("phone");
let email = xml.getElementsByTagName("email");
for (let i = 0; i < userid.length; i++) {
if (id == userid[i].firstChild.nodeValue) {
let user =
username[i].firstChild.nodeValue +
" - " +
address[i].firstChild.nodeValue +
" - " +
phone[i].firstChild.nodeValue +
" - " +
email[i].firstChild.nodeValue;
document.getElementById("result").innerHTML = user;
flag = 1;
}
}
if (flag === 0) {
document.getElementById("result").innerHTML = "Invalid User";
}}
```

```
        }
    });
}

okie()
```

data.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<userlist>
    <user>
        <userid>usr01</userid>
        <username>Gouse</username>
        <address>DSNR</address>
        <phone>8801550101</phone>
        <email>Gouse.sheikh@gmail.com</email>
    </user>
    <user>
        <userid>usr02</userid>
        <username>D Divakar</username>
        <address>Ameerpet</address>
        <phone>9888888888</phone>
        <email>D Divakar@gmail.com</email>
    </user>
    <user>
        <userid>usr03</userid>
        <username>Rajinth</username>
        <address>SR Nagar</address>
        <phone>9866666666</phone>
        <email>Rajinth@yahoo.com</email>
    </user>
</userlist>
```

Output:

User Details

usr02
<input type="button" value="Submit"/>

D Divakar - Ameerpet - 9888888888 - D Divakar@gmail.com

- 12) Create a static web page for Cafeteria Menu using order, unordered and nested List tag.

Menu.html

```
<!DOCTYPE html>
<html>
  <head>
    <title>Web page for Cafeteria Menu</title>
  </head>
  <body>
    <h1>Cafeteria Menu</h1>
    <p>Dessert</p>
    <ol>
      <li>Chocolate cake</li>
      <li>venilla cake</li>
      <li>Cheese cake</li>
    </ol>
    <p>Sandwich</p>
    <ul>
      <li>Egg & ham</li>
      <li>Hamburger</li>
      <li>cheese burger</li>
    </ul>
    <p>Drinks</p>
    <ul>
      <li> Mojitos drink
        <ul>
          <li>Blue lagoon</li>
        </ul>
      </li>
    </ul>
  </body>
</html>
```

```

        <li>Cocktail</li>
        <li>very berry</li>
    </ul>
</li>
<li>cool drinks
    <ul>
        <li>Thumps up</li>
        <li>Pepsi</li>
        <li>Sprite</li>
    </ul>
</li>
</ul>
</body>
</html>

```

Output:

Cafeteria Menu

Dessert

- 1. Chocolate cake
- 2. vanilla cake
- 3. Cheese cake

Sandwich

- Egg & ham
- Hamburger
- cheese burger

Drinks

- Mojitos drink
 - Blue lagoon
 - Cocktail
 - very berry
- cool drinks
 - Thumps up
 - Pepsi
 - Sprite

13) Write an Angular JS framework that allows users to switching between different layout modes (grid or list) with a click of a button.

```

<html xmlns="http://www.w3.org/1999/xhtml">

<head>
    <title></title>

```

```
<style type="text/css">
    .bar {
        background-color: #5c9bb7;
        background-image: -webkit-linear-gradient(top, #5c9bb7,
#5392ad);
        background-image: -moz-linear-gradient(top, #5c9bb7,
#5392ad);
        background-image: linear-gradient(top, #5c9bb7, #5392ad);
        box-shadow: 0 1px 1px #ccc;
        border-radius: 2px;
        width: 580px;
        padding: 10px;
        margin: 45px auto 25px;
        position: relative;
        text-align: right;
        line-height: 1;
    }

    .bar a {
        background: #4987a1 center center no-repeat;
        width: 32px;
        height: 32px;
        display: inline-block;
        text-decoration: none !important;
        margin-right: 5px;
        border-radius: 2px;
        cursor: pointer;
    }

    .bar a.active {
        background-color: #c14694;
    }

    /*-----List layout-----*/
    ul.list {
        list-style: none;
        width: 500px;
        margin: 0 auto;
        text-align: left;
    }

    ul.list li {
        padding: 10px;
        overflow: hidden;
    }

```

```

    ul.list li img {
        float: left;
        border: none;
    }

    ul.list li p {
        margin-left: 135px;
        font-weight: bold;
        color: black;
    }

/*-----Grid layout-----*/
ul.grid {
    list-style: none;
    width: 570px;
    margin: 0 auto;
    text-align: left;
}

ul.grid li {
    padding: 10px;
    float: left;
    color: black;
    font-weight: bold;
}

```

</style>

```

<script type="text/javascript"
src="https://cdnjs.cloudflare.com/ajax/libs/angular.js/1.7.8/angular.min.js">
</script>
<script type="text/javascript">
    var app = angular.module("MyApp", []);
    app.controller("MyController", function ($scope) {
        $scope.layout = 'grid';
        $scope.Data = [
            { Name: "Desert" },
            { Name: "Hydrangeas" },
            { Name: "Jellyfish" },
            { Name: "Koala" },
            { Name: "Lighthouse" },
            { Name: "Penguins" },
            { Name: "Tulips" }];
    });
</script>

```

```

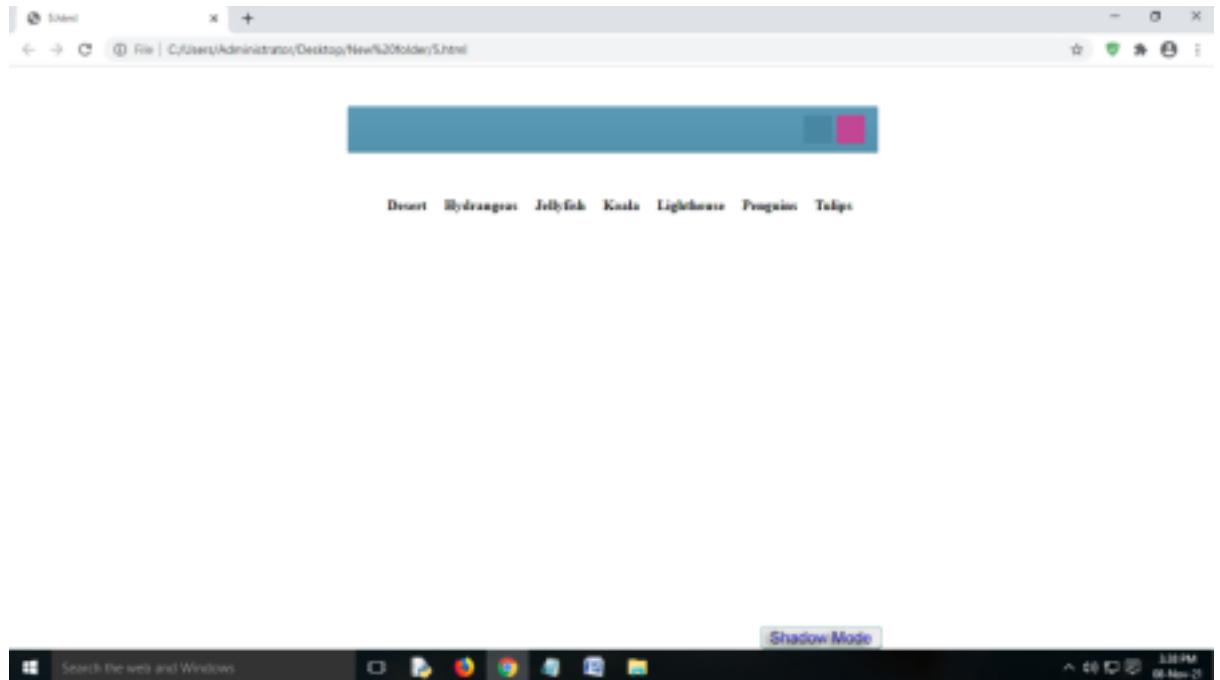
</head>

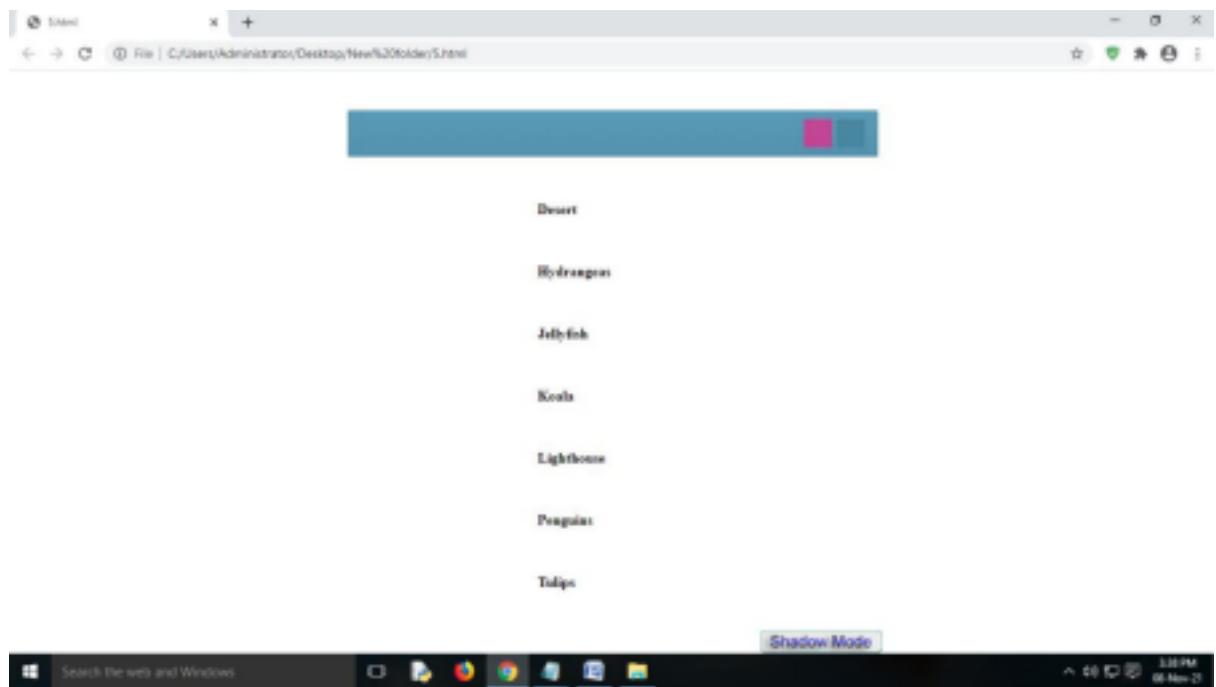
<body>
    <div ng-app="MyApp" ng-controller="MyController">
        <div class="bar">
            <a class="list-icon" ng-class="{active: layout == 'list'}"
ng-click="layout = 'list'"> </a><a
                class="grid-icon" ng-class="{active: layout == 'grid'}"
ng-click="layout = 'grid'"> </a>
            </div>
            <ul ng-show="layout == 'grid'" class="grid">
                <li ng-repeat="data in Data">
                    <p>{{data.Name}}</p>
                </li>
            </ul>
            <ul ng-show="layout == 'list'" class="list">
                <li ng-repeat="data in Data">
                    <p>{{data.Name}}</p>
                </li>
            </ul>
        </div>
    </body>

</html>

```

OUTPUT:





RESULT:

Thus the program to toggle between grid and list layout has been executed and verified successfully.

14) Write an HTML page including required JavaScript that takes a number from one text field in the range of 0 to 999 and shows it in another text field in words. If the number is out of range, it should show “out of range” and if it is not a number, it should show “not a number” message in the result box.

```
<!DOCTYPE html>
<html>
    <head>
        <title>Number range</title>
    </head>
    <body style="background-color: lightblue; color: dangerblue">
        <script language="javascript">
            function numtowords(number)
            {
                hyphen = '-';
                conjunction = ' and ';
                separator = ', ';
                dictionary = {
                    0 : 'zero',
                    1 : 'one',
                    2 : 'two',
                    3 : 'three',
                    4 : 'four',
                    5 : 'five',
                    6 : 'six',
                    7 : 'seven',
                    8 : 'eight',
                    9 : 'nine',
                    10 : 'ten',
                    11 : 'eleven',
                    12 : 'twelve',
                    13 : 'thirteen',
                    14 : 'fourteen',
                    15 : 'fifteen',
                    16 : 'sixteen',
                    17 : 'seventeen',
                    18 : 'eighteen',
                    19 : 'nineteen',
                    20 : 'twenty',
                    30 : 'thirty',
                    40 : 'forty',
                    50 : 'fifty',
                    60 : 'sixty',
                    70 : 'seventy',
                    80 : 'eighty',
                    90 : 'ninety',
                    100 : 'hundred',
                    1000 : 'thousand'
                }
                if (number < 0 || number > 999)
                    return "out of range";
                else if (typeof number !== 'number')
                    return "not a number";
                else
                    var words = '';
                    if (number > 999)
                        words += dictionary[1000] + separator;
                    if (number > 99)
                        words += dictionary[(number / 100) % 10] + conjunction + dictionary[100] + separator;
                    if (number > 9)
                        words += dictionary[(number / 10) % 10] + separator;
                    words += dictionary[number % 10];
                    return words;
                }
        </script>
    </body>
</html>
```

```
5 : 'five',
6 : 'six',
7 : 'seven',
8 : 'eight',
9 : 'nine',
10 : 'ten',
11 : 'eleven',
12 : 'twelve',
13 : 'thirteen',
14 : 'fourteen',
15 : 'fifteen',
16 : 'sixteen',
17 : 'seventeen',
18 : 'eighteen',
19 : 'nineteen',
20 : 'twenty',
30 : 'thirty',
40 : 'fourty',
50 : 'fifty',
60 : 'sixty',
70 : 'seventy',
80 : 'eighty',
90 : 'ninety',
100 : 'hundred',
};

if (number < 0 || number > 999)
{
    alert("Enter a number range between 0 and 999");
    return "";
}

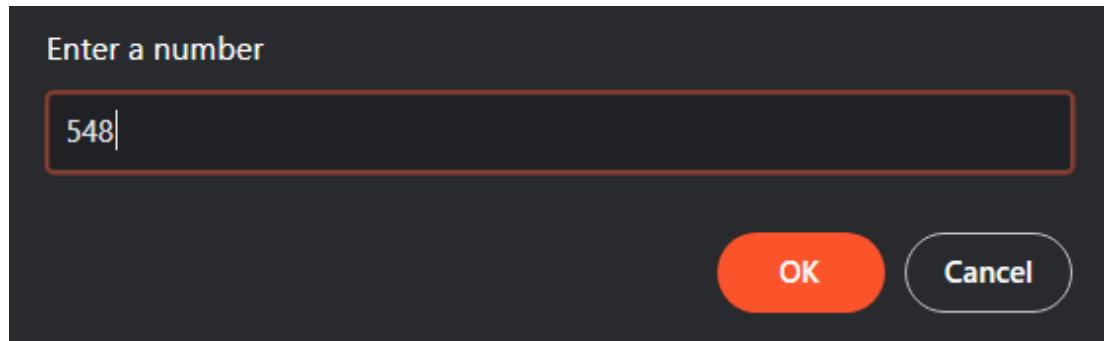
switch (true)
{
    case (number < 21):
        string = dictionary[number];
        break;
    case (number < 100):
        tens = parseInt(number / 10) * 10;
        units = number % 10;
        string = dictionary[tens];
        if (units)
        {
            string += hyphen + dictionary[units];
        }
}
```

```

        break;
    case (number < 1000):
        hundreds = parseInt(number / 100);
        remainder = number % 100;
        string = dictionary[hundreds] + ' ' + dictionary[100];
        if (remainder)
        {
            string += conjunction + numtowords(remainder);
        }
        break;
    default:
        break;
    }
    return string;
}
a=prompt("Enter a number");
num=parseInt(a);
document.write(numtowords(num));
</script>
</body>
</html>

```

Output:



15) Create a web page with the following using HTML.

- a. To embed a map in a web page.*
- b. To fix the hot spots in that map.*
- c. Show all the related information when the hot spots are clicked.*

PROGRAM

Index.html

```

<!DOCTYPE html>
<head>
<title>hotspots</title>
</head>
<body>

<map name="map">
    <area shape="rect" coords="80,307,180,204" href="RAJASTHAN.html">
    <area shape="rect" coords="175,550,250,410" href="AP.html">
</map>
</html>

```

Rajasthan.html

```

<html>
<head>
<title>Rahasthan</title>
<style>
.slider {
background: url(rajasthan.png);
width: 500px;
height: 500px;
background-repeat: no-repeat;
background-size: 100%;
}
</style>
</head>
<body bgcolor="green">
<h1 style="color: white">RAJASTHAN</h1>
<div class="slider"></div>
<a href="index.html" style="color:
pink">GO TO MAP</a> <h4>
<p style="color: white">
Rajasthan is located on the northwestern side of
India, where it comprises most of the wide and
inhospitable Thar Desert (also known as the "Great
Indian Desert") and shares a border with the Pakistani
provinces of Punjab to the northwest and Sindh to the
west, along the Sutlej-Indus river valley.
</p>
</h4>
</body>
</html>

```

Ap.html

```

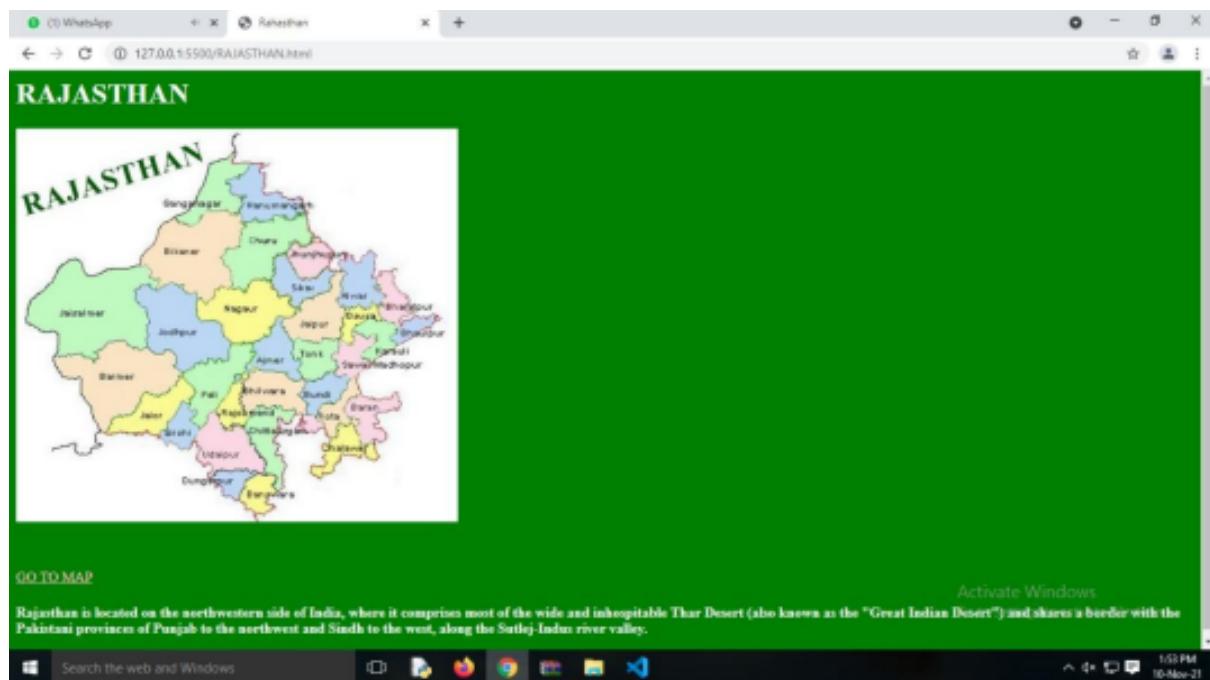
<html>
<head>
<title>AP</title>
<style>

```

```
.slider {  
background: url(ap.jpg);  
width: 500px;  
height: 500px;  
background-repeat: no-repeat;  
background-size: 100%;  
}  
</style>  
</head>  
<body bgcolor="lightgreen">  
<h1>ANDHRA PRADESH</h1>  
<div class="slider"></div>  
<a href="index.html" style="color: red">GO TO  
MAP</a><br /> Andhra Pradesh hosted 121.8  
million visitors in 2015, a 30% growth in tourist  
arrivals over the previous year, making it the third  
most-visited state in India.  
</body>  
</html>
```

OUTPUT





OUTPUT

