

SRI SIVASUBRAMANIYA NADAR
COLLEGE OF ENGINEERING

(AN AUTONOMOUS INSTITUTION, AFFILIATED TO ANNA UNIVERSITY, CHENNAI)

RAJIV GANDHI SALAI (OMR), KALAVAKKAM – 603110

LABORATORY RECORD

UIT1611 – WEB PROGRAMMING LABORATORY

Name :

Reg. No. :

Dept. : Sem. : Sec. :.....



ANNA UNIVERSITY

BONAFIDE CERTIFICATE

Certified that this is the bonafide record of

the practical work done for the

..... ab

by

Name.....

Register Number.....

of Department of

Sri Sivasubramaniya Nadar College of Engineering,

Kalavakkam, Chennai

during the academic year

Staff In-Charge

Head

Department of

Submitted for the University Examination held at

Sri Sivasubramaniya Nadar College of Engineering on

Internal Examiner

External Examiner

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Exp-1

Date- 02/02/2021

Design a website using HTML 4, CSS 2, HTML 5, CSS 3

AIM

1a. HTML 4: Horizontal rule, Links, Image Insertion, Ordered and unordered list, Internal hyper linking, Meta, Simple table, Form, Frames, and Hotspot creation

1b. CSS 2: Types of CSS (inline, internal and external), Selectors, Box model, Layout, and Positioning

1c. HTML 5: New Structural Elements, Audio, Video, Form creation, Canvas API, SVG, and Geo location

1d. CSS 3: Borders, Text effects, Animation, and Transitions

PROCEDURE

- Create the HTML for the different pages required for the application - `<html>`
- Separate each page into different sections, header and footer - `<section>`, `<header>`, `<footer>` & `<body>`
- Define metadata information about the html using `<meta>` tag
- Create ordered and unordered lists - ``, ``
- Use tags for creating simple table - `<table>`, `<tr>` - define row, `<td>` - define data cell, `<th>` - define header cell
- Use forms, images, videos, audio, lists, frames etc. as required - `<form>`, `<video>`, `<audio>`
- `` & `<frame>`
- Use `<map>` tag for creating hotspot
- Create hyper links using `<a>` tag . For internal linking we use '#' and define an id using `<a>`
- Create external CSS by saving them as .css files and include them in html page using `<link>` tag
- Use selectors in CSS like '#' for ***id selector*** , '.' For ***pseudo selector*** etc..
- Add CSS positioning like ***static, stick , relative & absolute***
- ***Use <iframe> tag to display to get the city and country of the user which implements Geolocation***
- Use SVG for the logo. (`<svg>`)
- Add various text effect , animations and transitions to the CSS files.

CODE

1a)_HTML 4: Horizontal rule, Links, Image Insertion, Ordered and unordered list, Internal hyper linking, Meta, Simple table, Form, Frames, and Hotspot creation

Main.html

```
<!DOCTYPE html>
<!-- FRAME !-->
<html>
    <frameset cols="350,*">
        <frame src =
"file:///C:/Users/MANISHA/Desktop/ssn%20sem%206/web%20programming/lab/cake%20ordering
%20system/ex%201-%20basics/vedio.html">

        <frame
src="file:///C:/Users/MANISHA/Desktop/ssn%20sem%206/web%20programming/lab/cake%20order
ing%20system/ex%201-%20basics/HTML%204.html">

    <noframes>
    </frameset>
</html>
```

Html 4.html

```
<!DOCTYPE html>
<html>
    <!-- TITLE & META--!>
    <head>
        <meta name="description" content="An Online Cake Ordering System">
        <meta name="keywords" content="
Cake Near Me Birthday Cake Bakeries near me Cake Bakeries online Top Cake Bakery
Wedding Cake Bakers Famous Bakery Custom Cakes Near My Bakery Wedding Cakes Cup
Cakes Baker Cake Bakery Shop Bakery And Cake Shop">
        <title>Online Cake Ordering System</title>
        <link rel="stylesheet" href="styles.css">
    </head>

    <body>

        <!--HOTSPOT CREATION --!>
        <div class="container">
            
            <div class="top-left"><strong>REVIEWS</strong></div>
        </div>
        <map name="pastry">
```

```

        <area shape="circle" coords="34,44,270,350" alt="Customer Feedback"
href="file:///C:/Users/MANISHA/Desktop/ssn%20sem%206/web%20programming/lab/cake%20ord
ering%20system/reviews.htm">

<!-- HORIZONTAL RULE !-->
<hr>
<table width="800" border="0" align="center" cellpadding="5">
<tr>

<!-- HEADER - H1 & LAYOUT HEADER-- & STICKY POSITION --!>
<h1 id="bordering" class="style1" align="center">Welcome to Palettenknife Cakes &
Bakes </h1></div>
<br><br>
<div class="header sticky">Use code PNK10 to avail 10%off on all orders</h1></div>
</tr>
<tr>
<td>

<!-- INTERNAL LINKING --!>
<!-- NAVIGATION BAR (LAYOUT) & PSEUDO SELECTOR (ANCHOR ELEMENT HOEVER) ->
<div class="topnav">
<a href="#About">About</a>
<a href="#Pastries">Pastries</a>
<a href="#Cupcakes">Cupcakes</a>
<a href="#Icecream cakes">Icecream cakes</a>

<!-- EXTERNAL LINKING --!>
<a
href="file:///C:/Users/MANISHA/Desktop/ssn%20sem%206/web%20programming/lab/cake%20ord
ering%20system/login.html">Login</a>
<a href="https://www.sangeethaveg.com/">Our Veg Restaurant</a>
<a
href="file:///C:/Users/MANISHA/Desktop/ssn%20sem%206/web%20programming/lab/cake%20ord
ering%20system/geolocation.html">Location</a>
</div>
</td>
</tr>
<table width="800" border="0" align="center" cellpadding="5">
<tr>
<a id="About"><td align="center" colspan="10" style="background-color:#9FE2BF"><b>About</b></td></a>
</tr>
<tr>
<!-- PARAGRAPH--!>
<td colspan="15">
<article>
<p style ="color:#c71585; font-size:22px; font-style:italic; text-align="left";">A <strong>pioneer in the online cake </strong>shop model with associated home delivery services in Chennai, we cater for all occasions and events like weddings, birthday parties, engagement parties, and anniversaries. <br>Palettenknife ,Chennai brings a<strong> rich culinary

```

experience to the subtle art of baking and cake making. Using traditional techniques and the best ingredients, we offer cakes in a delicious variety of flavours.
Exceptional customer service complements our baking excellence and we go the extra mile in undertaking 'midnight cake delivery' and 'doorstep delivery' for your special occasion.</p></article></td>
</tr>

<tr>
 <td align= "center" colspan="10" style="background-color:#9FE2BF">Pastries</td>
 </tr>

 <!-- SIMPLE TABLE WITH TH,TR,TD--!>
 <!-- IMAGE --!>
 <!-- UNORDERED LIST --!>

 <table width="800" border="0" align="center" cellpadding="5">
 <tr>
 <th align="left">Cakes</th>
 <th align="left">Rate/Kg </th>
 <th align="left">Rate/ 1/2 Kg</th>
 </tr>

 <tr>
 <!-- IMAGE INSERTION !-->
 <td>Truffle Cake</td>
 <td>1000</td>
 <td>500</td>
 </tr>
 <tr>
 <td>Pineapple pastry</td>
 <td>800</td>
 <td>400</td>
 </tr>
 <tr>
 <td>Ebony and Ivory</td>
 <td>1200</td>
 <td>600</td>
 </tr>
 <tr>
 <td>butterscotch cake</td>
 <td>800</td>
 <td>400</td>
 </tr>

 </table>
</tr>

```

<tr>
    <td><li><strong>Chocolate Bliss</strong></li></td>
    <td>800</td>
    <td>400</td>
</tr>
</ul>
</tr>
</table>

<table width="800" border="0" align="center" cellpadding="5">
<tr>
<a id="Cupcakes"><td align= "center" colspan="10" style="background-
color:#9FE2BF"><b>Cup Cakes</b></td></a>
</tr>
<tr>
    <th align="left">Cakes</th>
    <th align="left">Rate/pc </th>
</tr>

<!-- ORDERED LIST --!>
<table width="800" border="0" align="center" cellpadding="5">

    <tr>
        <td>
            <ol type="1" >
                <li> <pre><strong>Mocha</strong> 100 </pre></li>
                <li> <pre><strong>Tiramisu</strong> 150 </pre></li>
                <li> <pre><strong>cookie n cream</strong> 80 </pre></li>
            </ol>
        </td>
    </tr>

</table>

<table width="800" border="0" align="center" cellpadding="5">
<tr>
<a id="Icecream cakes"><td align= "center" colspan="10" style="background-
color:#9FE2BF"><b>IceCream Cakes</b></td></a>
</tr>
<tr>
    <th align="left">Cakes</th>
    <th align="left">Rate/Kg </th>
    <th align="left">Rate/ 1/2 Kg</th>
</tr>
<ul>

```

```

<tr>

    <td><li><strong>Black Forest Cake</strong></li></td>
        <td>1800</td>
        <td>900</td>

    </tr>
    <tr>
        <td><li><strong>Red Velvet Cake</strong></li></td>
            <td>2000</td>
            <td>1000</td>
    </tr>
    <tr>
        <td><li><strong>Swiss Choco symphony</strong></li></td>
            <td>1600</td>
            <td>800</td>
    </tr>
    <tr>
        <td><li><strong>Mango Kingdom</strong></li></td>
            <td>2200</td>
            <td>1100</td>
    </tr>
    <tr>
        <td><li><strong>Rich Blackcurrent</strong></li></td>
            <td>1800</td>
            <td>900</td>
    </tr>
</ul>
</tr>
</table>

</body>
</html>

```

Vedio.html

```

<html>
<style>
    body{
        background-color: #ffdead;
    }
</style>
<body>

```

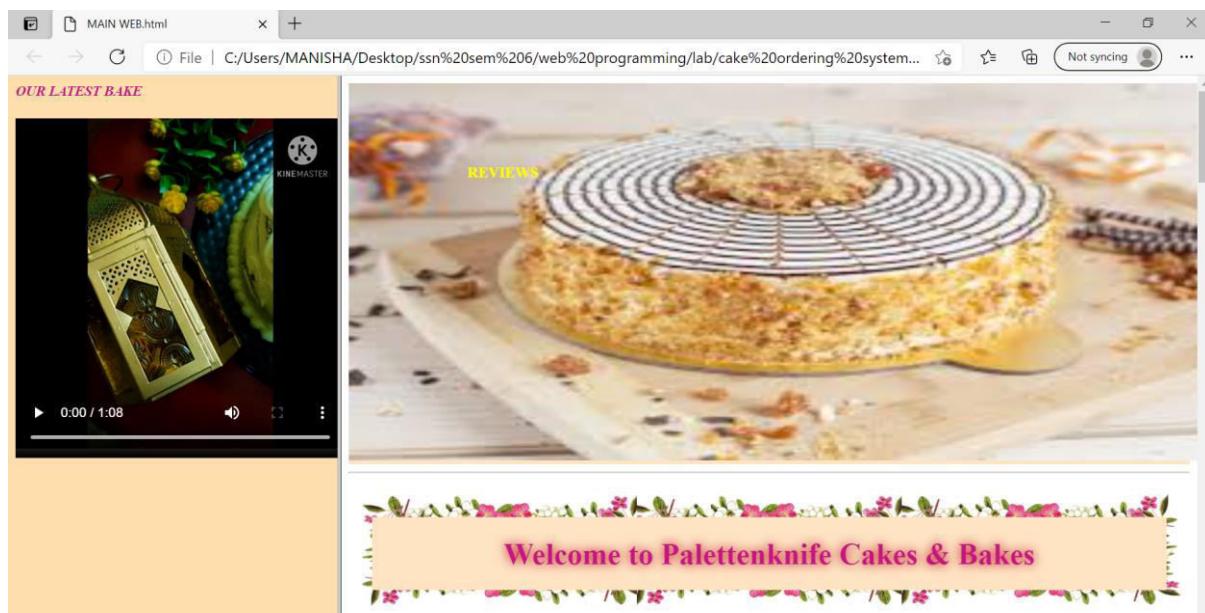
```

<h1 style = "color:#c71585; font-size:15px; font-style:italic; text-align="left";"> OUR LATEST  

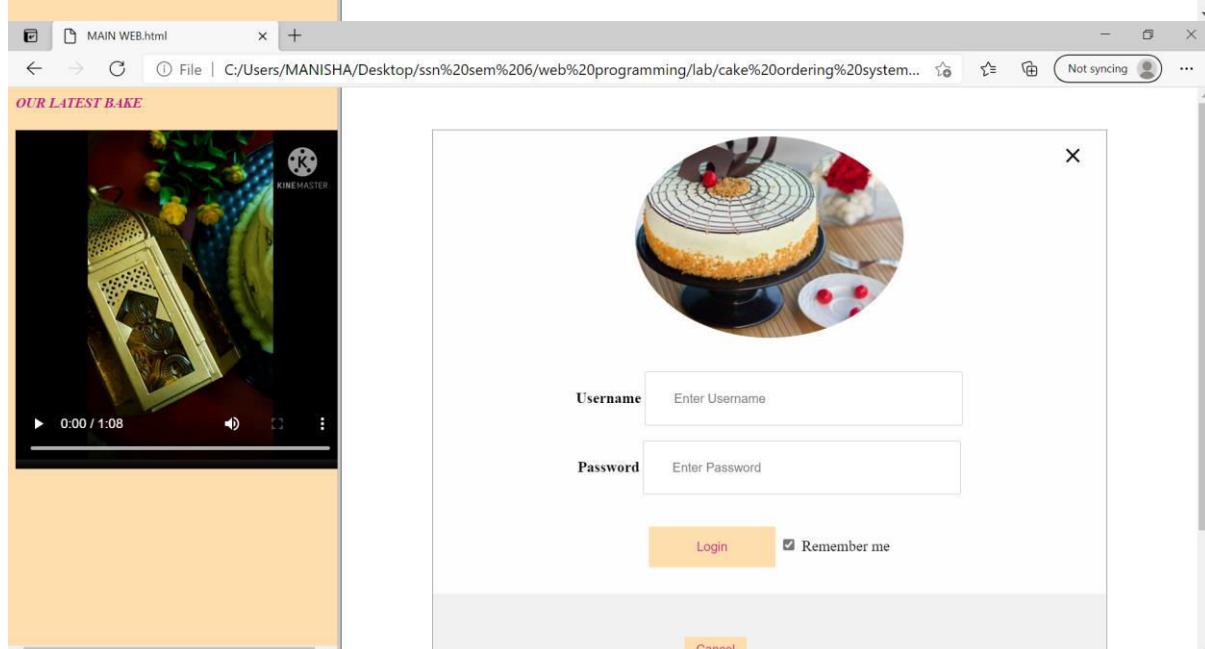
BAKE</h1>
<video width="350" height="370" controls>
<source src="cake.mp4" type="video/mp4">
</video>
</body>
</html>

```

OUTPUT



The screenshot shows a web browser window titled "MAIN WEB.html". The main content area displays a video player with a thumbnail of a gold-colored cake tin containing three small cakes. To the right of the video is a large, round cake with white frosting and a decorative pattern. Below the video and the cake image is a yellow banner with the text "Welcome to Palettenknife Cakes & Bakes" in pink.



The second screenshot shows the same browser window, but a login modal is overlaid on the page. The modal features a circular image of a cake with white frosting and cherries. Below the image are two input fields: "Username" and "Password", each with a placeholder text "Enter Username" and "Enter Password" respectively. There is a "Login" button, a "Remember me" checkbox, and a "Cancel" button at the bottom.

Date- 09/02/2021

1b) CSS 2: Types of CSS (inline, internal and external), Selectors, Box model, Layout, and Positioning

```
<html>
    <!-- TITLE & META--!>
    <head>
        <meta name="description" content="Review">
        <meta name="keywords" content=""
        Cake Near Me Birthday Cake Bakeries near me Cake Bakeries online Top Cake Bakery
        Wedding Cake Bakers Famous Bakery Custom Cakes Near My Bakery Wedding Cakes Cup
        Cakes Baker Cake Bakery Shop Bakery And Cake Shop">
        <title>Review</title>
        <!-- EXTERNAL CSS !-->
        <link rel="stylesheet" href="styles.css">

    </head>
    <!-- INTERNAL CSS --!>
    <style>
        body {background-color: bisque;}
        p {color:#0000cd; text-align:center;}
        .left{
            text-align: left;
            color: #a0522d;
            font-style:italic;
        }
        #para2 {
            text-align:center;
            font-style:italic;
        }
        div {
            width: 950px;
            border: 15px solid navy;
            padding: 50px;
            margin: 20px;
        }
        <!-- CSS LAYOUT !-->
        .header {
            background-color:#ff7f50;
            padding: 20px;
            text-align:center;
        }
        p.sticky {
            position: sticky;
            top: 0;
            padding: 5px;
            background: #ffdead;
        }

    </style>
```

```
<body>
```

```
<h1 class="header" id="bordering">REVIEWS</h1>
<p class="header sticky" id="bordering">Use code PNK10 to avail 10%off on all orders</p>
<p style ="color:#191970; font-size:12px; font-style:italic; text-align="left";">HERE ARE WHAT SOME
OF OUR AWESOME CLIENTS HAVE SAID ABOUT US!</p>
<!-- CLASS SELECTOR, INLINE STRUCTURE ABOVE-- !>
```

```
<!-- BOX MODEL , INTERNAL STRUCTURE (BODY AND P), ID SELECTOR --!>
<div><p style = "color:#009900; font-size:20px; font-style:italic; text-align="left";"> “Each time I
throw a party Palettenknife is my go-to. <mark>Manisha is beyond talented at what she
does</mark>. She has created some of the loveliest dessert spreads I have ever seen. She will go
through every detail with you until it’s just right. Everything is beautiful and delicious.”
— Jacqui<br><br></p>
```

```
<!--Horizontal line !-->
<hr>
```

```
<p id="para2"> “Thank you sooooo much for the most <mark>delicious cupcakes!!!!</mark> They
not only tasted out of this world fabulous, they looked wonderful with the custom, hand made
butterflies and dragonflies decorations!!! When our families saw the cupcakes, they jokingly asked if
we can have dessert first because they remember all the previous wonderful desserts that you made
for our birthday dinners!! We enjoyed every bite!!!
— Winnie<br><br></p>
```

```
<hr>
```

```
<p style = "color:#009900; font-size:20px; font-style:italic; text-align="left";"> “As soon as I brought
out the cake to place on the table, my daughter ran right over. She was speechless and it really took
her breath away. I will never forger her facial expression, I could barely even make out “Is this my
cake?” My guests loved it as well, they even made a line to take pictures. <mark>The cake was just
so adorable </mark>and too pretty to cut. I really appreciate the time and effort and going out of
your way to incorporate all the designs that my daughter wanted, from having Ariel on top, to not
forgetting Flounder and Sebastian :) THANKS SO MUCH BGU! :”
— Maria<br></p></div>
```

```
</body>
</html>
```

Styles.css

```
.header {  
    background-color:#ff7f50;  
    padding: 20px;  
    text-align: center;  
}  
.topnav {  
    overflow: hidden;  
    background-color: #ffdead;  
    text-align: center;  
  
}  
.topnav a {  
    float: left;  
    color: #c71585;  
    text-align: center;  
    padding: 14px 16px;  
    text-decoration: none;  
    font-size: 17px;  
}  
a:hover {  
    background-color:#eee8aa;  
    color: black;  
}  
div.sticky {  
    position: sticky;  
    top: 0;  
    padding: 5px;  
}  
div.foot{  
    width: 300px;  
    height: 240px;  
    border: 7px solid #FF0000;  
    padding: 20px;  
    margin: 10px;  
}  
.container {  
    position: relative;  
    text-align: center;  
    color: black;  
}  
.top-left {  
    position: absolute;  
    top: 86px;  
    left: 46px;  
}  
#bordering {  
    border: 25px solid transparent;  
    padding: 20px;  
    border-image: url(border.jpg) 60 round;  
}
```

```
.style1{  
text-shadow:0 0 12px #B00000 ;  
background: #ffdead;  
color: #c71585;  
}
```

OUTPUT



Date- 16/02/2021

1c) HTML 5: New Structural Elements, Audio, Video, Form creation, Canvas API, SVG, and Geo location

Main.html

```
<!DOCTYPE html>
<!-- FRAME !-->
<html>
    <frameset cols="350,*">
        <frame src =
"file:///C:/Users/MANISHA/Desktop/ssn%20sem%206/web%20programming/lab/cake%20ordering
%20system/ex%201-%20basics/vedio%20&%20audio.html">

        <frame
src="file:///C:/Users/MANISHA/Desktop/ssn%20sem%206/web%20programming/lab/cake%20order
ing%20system/ex%201-%20basics/HTML%205.html">

    </frameset>
</html>
```

HTML5.html

```
<!DOCTYPE html>
<html>

    <head>
        <meta name="description" content="An Online Cake Ordering System">
        <meta name="keywords" content="
Cake Near Me Birthday Cake Bakeries near me Cake Bakeries online Top Cake Bakery
Wedding Cake Bakers Famous Bakery Custom Cakes Near My Bakery Wedding Cakes Cup
Cakes Baker Cake Bakery Shop Bakery And Cake Shop">
        <title>Online Cake Ordering System</title>

        <link rel="stylesheet" href="styles.css">
    </head>
```

```
<body>
```

```
<div class="container">
    
    <div class="top-left"><strong>REVIEWS<strong></div>
    </div>
    <map name="pastry">
```

```

<area shape="circle" coords="34,44,270,350" alt="Customer Feedback"
href="file:///C:/Users/MANISHA/Desktop/ssn%20sem%206/web%20programming/lab/cake%20ord
ering%20system/reviews.htm">

<table width="800" border="0" align="center" cellpadding="5">
<tr>
<h1 id="bordering" class="style1" align="center">Welcome to Palettenknife Cakes &
Bakes </h1></div>
<br><br>
<div class="header sticky">Use code PNK10 to avail 10%off on all orders</h1></div>
</tr>
<tr>
<td>
<div class="topnav">
<a href="#About">About</a>
<a href="#Pastries">Pastries</a>
<a href="#Cupcakes">Cupcakes</a>
<a href="#Icecream cakes">Icecream cakes</a>

<a
href="file:///C:/Users/MANISHA/Desktop/ssn%20sem%206/web%20programming/lab/cake%20ord
ering%20system/login.html">Login</a>
<a href="https://www.sangeethaveg.com/">Our Veg Restaurant</a>
<a
href="file:///C:/Users/MANISHA/Desktop/ssn%20sem%206/web%20programming/lab/cake%20ord
ering%20system/geolocation.html">Location</a>
</div>
</td>
</tr>
<table width="800" border="0" align="center" cellpadding="5">
<tr>
<a id="About"><td align= "center" colspan="10" style="background-
color:#9FE2BF"><b>About</b></td></a>
</tr>
<tr>
<td colspan="15">
<!-- ARTICLE !-->

<article>
<p style ="color:#c71585; font-size:22px; font-style:italic; text-
align="left";">A <strong>pioneer in the online cake </strong>shop model with associated home
delivery services in Chennai, we cater for all occasions and events like weddings, birthday parties,
engagement parties, and anniversaries. <br>Palettenknife ,Chennai brings a<strong> rich culinary
experience </strong>to the subtle art of baking and cake making. Using traditional techniques and
the best ingredients, we offer cakes in a delicious variety of flavours.<br><strong>Exceptional
customer service </strong>complements our baking excellence and we go the extra mile in
undertaking 'midnight cake delivery' and 'doorstep delivery' for your special
occasion.</p></article></td>
</tr>

```

```

<tr>

    <a id="Pastries"><td align= "center"
colspan="10"style="background-color:#9FE2BF"><b>Pastries</b></td></a>
    </tr>

    <!-- SIMPLE TABLE WITH TH,TR,TD--!>
    <!-- IMAGE --!>
    <!-- UNORDERED LIST --!>

    <table width="800" border="0" align="center" cellpadding="5">
        <tr>
            <th align="left">Cakes</th>
            <th align="left">Rate/Kg </th>
            <th align="left">Rate/ 1/2 Kg</th>
        </tr>
        <ul>
            <tr>

                <td><li><strong>Truffle Cake</strong></li></td>
                <td>1000</td>
                <td>500</td>

            </tr>
            <tr>
                <td><li><strong>Pineapple pastry</strong></li></td>
                <td>800</td>
                <td>400</td>
            </tr>
            <tr>
                <td><li><strong>Ebony and Ivory</strong></li></td>
                <td>1200</td>
                <td>600</td>
            </tr>
            <tr>
                <td><li><strong>butterscotch cake</strong></li></td>
                <td>800</td>
                <td>400</td>
            </tr>
            <tr>
                <td><li><strong>Chocolate Bliss</strong></li></td>
                <td>800</td>
                <td>400</td>
            </tr>
        </ul>

```

```

</tr>
</table>

<table width="800" border="0" align="center" cellpadding="5">
    <tr>
        <a id="Cupcakes"><td align= "center" colspan="10" style="background-color:#9FE2BF"><b>Cup Cakes</b></td></a>
    </tr>
    <tr>
        <th align="left">Cakes</th>
        <th align="left">Rate/pc </th>
    </tr>

    <!-- ORDERED LIST --!>
    <table width="800" border="0" align="center" cellpadding="5">

        <tr>
            <td>
                <ol type="1" >
                    <li> <pre><strong>Mocha</strong> 100 </pre></li>
                    <li> <pre><strong>Tiramisu</strong> 150 </pre></li>
                    <li> <pre><strong>cookie n cream</strong> 80 </pre></li>
                </ol>
            </td>
        </tr>

        </table>

        <table width="800" border="0" align="center" cellpadding="5">
            <tr>
                <a id="Icecream cakes"><td align= "center" colspan="10" style="background-color:#9FE2BF"><b>IceCream Cakes</b></td></a>
            </tr>
            <tr>
                <th align="left">Cakes</th>
                <th align="left">Rate/Kg </th>
                <th align="left">Rate/ 1/2 Kg</th>
            </tr>
            <ul>
            <tr>
                <td><li><strong>Black Forest Cake</strong></li></td>
                <td>1800</td>
                <td>900</td>
            
```

```

</tr>
<tr>
    <td><li><strong>Red Velvet Cake</strong></li></td>
        <td>2000</td>
        <td>1000</td>
    </tr>
    <tr>
        <td><li><strong>Swiss Choco symphony</strong></li></td>
            <td>1600</td>
            <td>800</td>
    </tr>
    <tr>
        <td><li><strong>Mango Kingdom</strong></li></td>
            <td>2200</td>
            <td>1100</td>
    </tr>
    <tr>
        <td><li><strong>Rich Blackcurrent</strong></li></td>
            <td>1800</td>
            <td>900</td>
    </tr>
</ul>
</tr>
</table>
<!-- CANVAS API !-->
<canvas id="myCanvas" width="1250" height="200"> Your browser does not
support the canvas element. </canvas>

```

```

<!-- FOOTER - STRUCTURAL ELEMENT !-->
<footer>
    <table width="800" border="0" align="center">
        <tr align="center">
            <td>
                <!-- SVG !-->
                <svg height="130" width="500" >
                    <defs>
                        <linearGradient id="grad1" x1="0%" y1="0%" x2="100%" y2="0%">
                            <stop offset="0%" style="stop-color:#FFEBBC;stop-opacity:1" />
                            <stop offset="100%" style="stop-color:#FF0000;stop-opacity:1" />
                        </linearGradient>
                    </defs>
                    <rect width="650" height="50" fill="url(#grad1)" />
                    <text fill="#FF0000" font-size="20" font-family="Verdana" x="175" y="25">CONTACT
US</text>
                Sorry, your browser does not support inline SVG.
                </svg>
            </td>
        </tr>
    </table>

```

```

        </td>
    </tr>
    <table width="800" border="0" align="center">
        <tr align="center">
            <td>
                <!-- ARTICLE - STRUCTURAL ELEMENT !-->
                <div class="foot"><article style = "color:#c71585; font-size:15px; font-style:italic;background-color: bisque;">Shop Timing<br>Shop walk in time : 10AM - 10PM
                <br>Phone Order : We take phone orders 24/7, call : +91 99520 52333/+91 99520 81222 <br>We are open on all national holidays and weekends.<br>Palettenknife Chennai<br>Email: cakesquarechennai@gmail.com<br><br>Head Office : 5/79 Butt Road, Mount Poonamalee High Road, St Thomas Mount, Chennai- 600016.<br></article>
            </td>
        </tr>
    </table>

```

```

</footer>

<script>
var canvas = document.getElementById("myCanvas");
var ctx=canvas.getContext("2d");
ctx.font="30px Comic Sans MS";
ctx.fillStyle = "red";
ctx.textAlign = "center";
ctx.fillText("VISIT US AGAIN !! ", canvas.width/2, canvas.height/2);
</script>

        </body>
</html>

```

Vedio & audio.html

```

<html>
<style>
    body{
        background-color: #ffdead;
    }
</style>
<body>
    <h1 style = "color:#c71585; font-size:15px; font-style:italic; text-align="left";"> OUR LATEST
BAKE</h1>
    <video width="350" height="370" controls>
        <source src="cake.mp4" type="video/mp4">
        <audio controls autoplay>
            <source src = "audio.wav" type = "audio/wav" />
            Your browser does not support the <audio> element.
        </audio>
    </body>
</html>

```

Login.html

```
<html>
    <!-- TITLE & META--!>
    <head>

        </head>
        <style>

/* Full-width input fields */
input[type=text], input[type=password] {
    width: 50%;
    padding: 20px 30px;
    margin: 8px 0;
    display: inline-block;
    border: 1px solid #ccc;
    box-sizing: border-box;
}

/* Set a style for all buttons */
button {
    background-color: #ffdead;
    color: #c71585;
    padding: 14px 20px;
    margin: 8px 0;
    border: none;
    cursor: pointer;
    width: 20%;
}

button:hover {
    opacity: 0.8;
}

/* Extra styles for the cancel button */
.cancelbtn {
    width: auto;
    padding: 6px 12px;
    background-color: #ffdead;
}

/* Center the image and position the close button */
.imgcontainer {
    text-align: center;
    margin: 6px 0 8px 0;
    position: relative;
}

img.cake{
    width: 40%;
    border-radius: 50%;
}
```

```

.container {
  padding: 20px;
  text-align: center;
}

span.psw {
  float: right;
  padding-top: 30px;
}

/* The Modal (background) */
.modal {
  display: none; /* Hidden by default */
  position: fixed; /* Stay in place */
  z-index: 1; /* Sit on top */
  left: 300px;
  top: 150px;
  width: 60%;
  height: 60%;
  overflow: auto; /* Enable scroll if needed */
  background-color: rgba(0,0,0,0.4); /* Black w/ opacity */
  padding-center: 60px;
}

/* Modal Content/Box */
.modal-content {
  background-color: #fefefe;
  margin: 5% auto 15% auto; /* 5% from the top, 15% from the bottom and centered */
  border: 1px solid #888;
  width: 80%; /* Could be more or less, depending on screen size */
}

/* The Close Button (x) */
.close {
  position: absolute;
  right: 25px;
  top: 0;
  color: #000;
  font-size: 35px;
  font-weight: bold;
}

.close:hover,
.close:focus {
  color: red;
  cursor: pointer;
}

```

```

</style>
<body>

    <!-- FORMS !-->
    <form class="modal-content animate" action="/action_page.php" method="post">
        <div class="imgcontainer">
            <span
                onclick="window.location.href='file:///C:/Users/MANISHA/Desktop/sem%206/web%20programming/u1/cake%20ordering%20system/food%20order%20management.htm';" class="close" title="Close Modal">&times;</span>
            
        </div>
        <div class="container">
            <label for="uname"><b>Username</b></label>
            <input type="text" placeholder="Enter Username" name="uname" required>

            <br><label for="psw"><b>Password</b></label>
            <input type="password" placeholder="Enter Password" name="psw" id="psw" name="psw" pattern="(?=.*\d)(?=.*[a-z])(?=.*[A-Z]).{8,}" title="Must contain at least one number and one uppercase and lowercase letter, and at least 8 or more characters" required><br>
            <br><button type="submit">Login</button>

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

        <div class="container" style="background-color:#f1f1f1">
            <br><button type="button"
                onclick="document.getElementById('id01').style.display='none'" class="cancelbtn">Cancel</button>
            <span class="psw">Forgot <a href="#">password?</a></span><br>
        </div>
    </form>
</div>

<script>
// Get the modal
var modal = document.getElementById('id01');

// When the user clicks anywhere outside of the modal, close it
window.onclick = function(event) {
    if (event.target == modal) {
        modal.style.display = "none";
    }
}

var myInput = document.getElementById("psw");
var letter = document.getElementById("letter");
var capital = document.getElementById("capital");
var number = document.getElementById("number");

```

```

var length = document.getElementById("length");

// When the user clicks on the password field, show the message box
myInput.onfocus = function() {
  document.getElementById("message").style.display = "block";
}

// When the user clicks outside of the password field, hide the message box
myInput.onblur = function() {
  document.getElementById("message").style.display = "none";
}

// When the user starts to type something inside the password field
myInput.onkeyup = function() {
  // Validate lowercase letters
  var lowerCaseLetters = /[a-z]/g;
  if(myInput.value.match(lowerCaseLetters)) {
    letter.classList.remove("invalid");
    letter.classList.add("valid");
  } else {
    letter.classList.remove("valid");
    letter.classList.add("invalid");
  }
}

// Validate capital letters
var upperCaseLetters = /[A-Z]/g;
if(myInput.value.match(upperCaseLetters)) {
  capital.classList.remove("invalid");
  capital.classList.add("valid");
} else {
  capital.classList.remove("valid");
  capital.classList.add("invalid");
}

// Validate numbers
var numbers = /[0-9]/g;
if(myInput.value.match(numbers)) {
  number.classList.remove("invalid");
  number.classList.add("valid");
} else {
  number.classList.remove("valid");
  number.classList.add("invalid");
}

// Validate length
if(myInput.value.length >= 8) {
  length.classList.remove("invalid");
  length.classList.add("valid");
} else {
  length.classList.remove("valid");
  length.classList.add("invalid");
}

```

```
    }
}
</script>
</body>
</html>
```

Geolocation.html

```
<!DOCTYPE html>
<html>
<header>
<style>
body {
    background-image: url("map.jpg");
    background-color: #cccccc;
}
div {
    width: 700px;
    border: 10px solid navy;
    padding: 15px;
    margin: auto;
    text-align:center;
    background-color: #ffdead;
}

</style>
</header>
<body>

<div>
<p style = "color:#009900; font-size:15px; font-style:italic; text-align="left";"><strong>KNOW YOU
LOCATION</strong></p>

<button onclick="getLocation()">Try It</button>

<p id="demo"></p>

<script>
var x = document.getElementById("demo");

function getLocation() {
    if (navigator.geolocation) {
        navigator.geolocation.getCurrentPosition(showPosition);
    } else {
        x.innerHTML = "Geolocation is not supported by this browser.";
    }
}
function showPosition(position) {
    const name=<iframe src='http://maps.google.com/maps?q='>
```

```

        const name2="&z=16&output=embed' height='450' width='600'>";
        x.innerHTML= name+position.coords.latitude+','+position.coords.longitude+name2;
    }

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

```

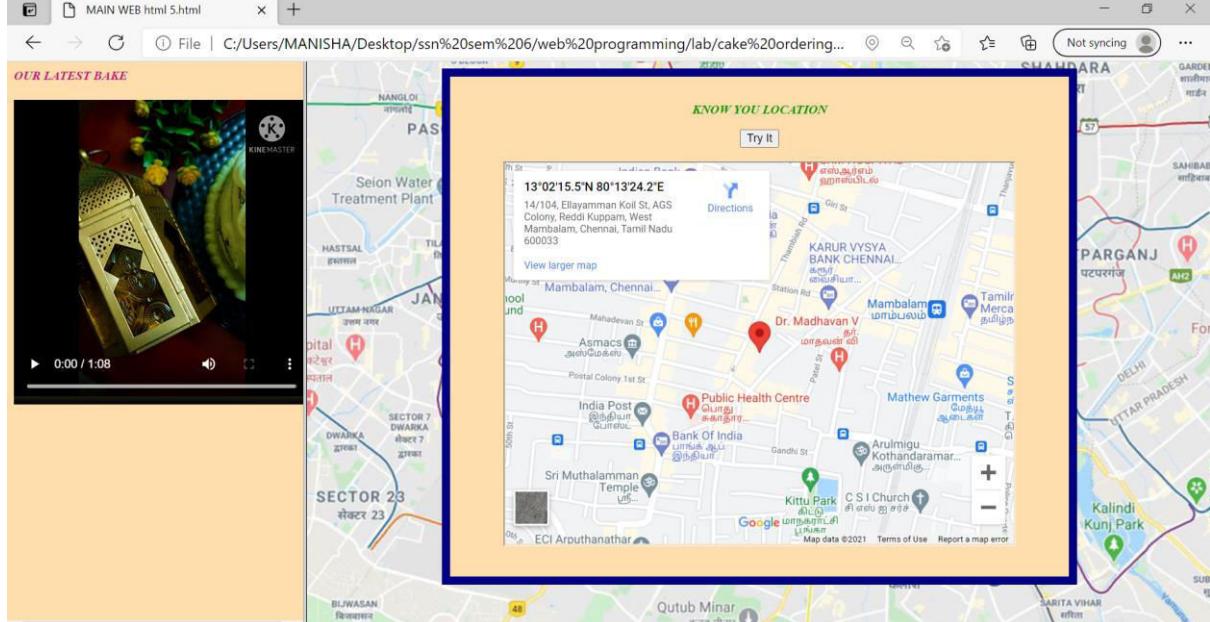
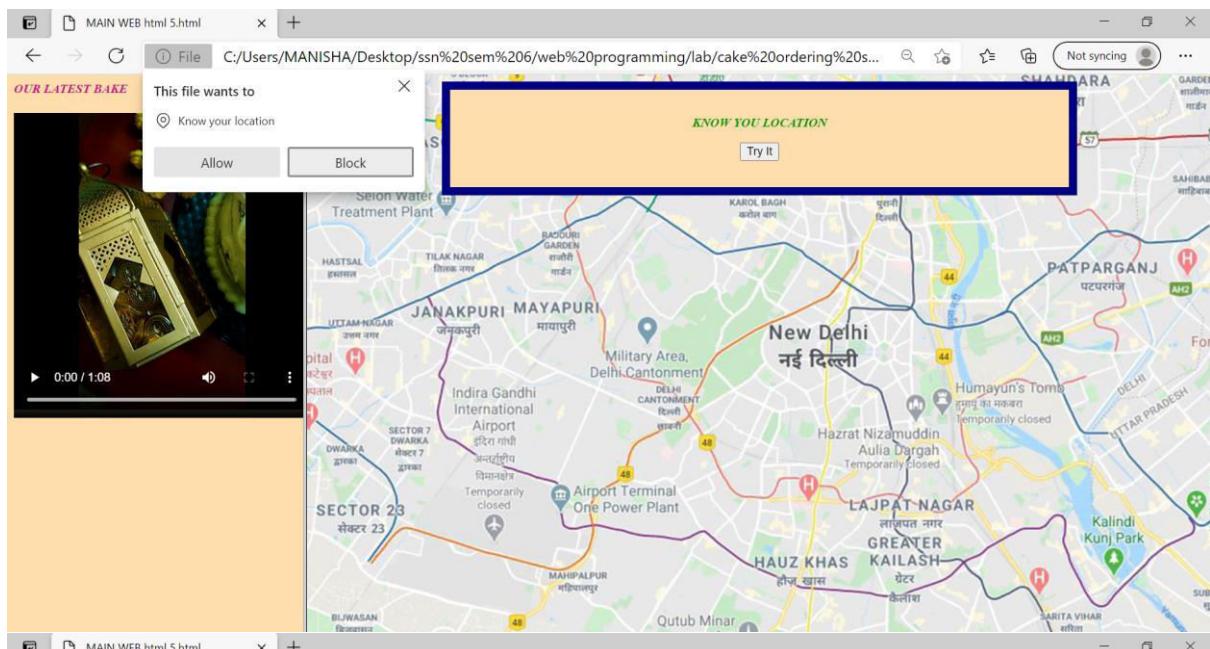
OUTPUT

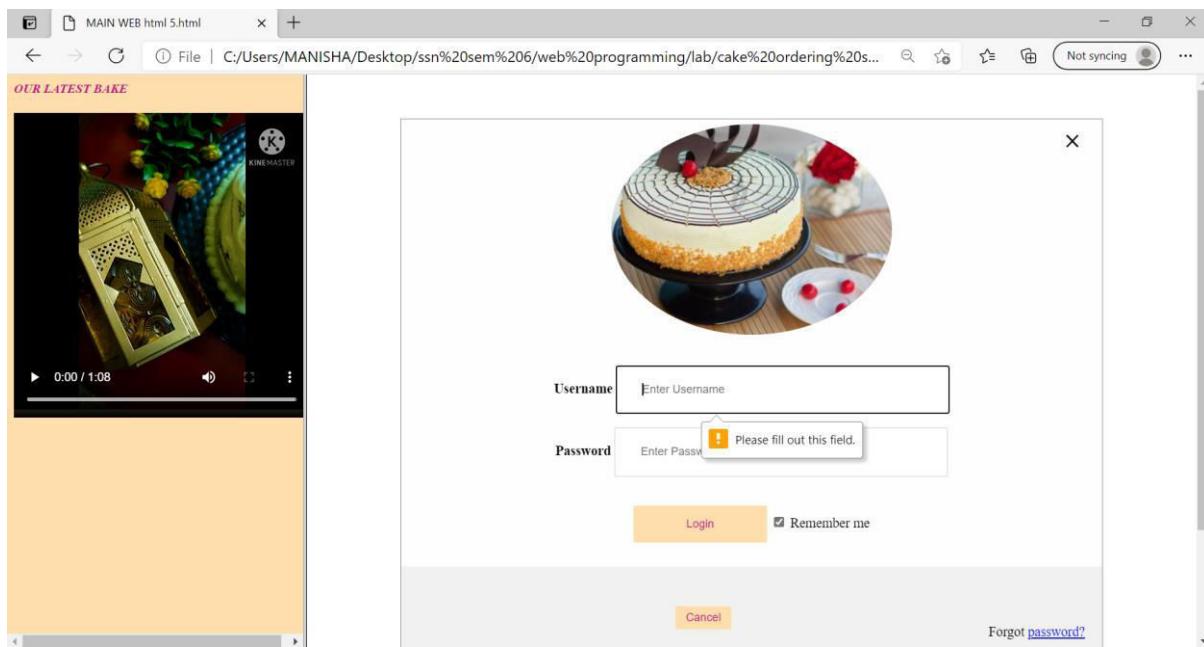
The screenshot shows two instances of a web browser window. Both windows display the same website for "Palettenknife Cakes & Bakes".

- Top Window:** Shows a video player with a thumbnail of a gold-colored cake tin and some yellow flowers. To the right is a large, round, multi-layered cake with a decorative pattern on top. Below the cake is a banner with the text "Welcome to Palettenknife Cakes & Bakes".
- Bottom Window:** Similar layout, but includes a red horizontal bar at the top with the text "Use code PNK10 to avail 10%off on all orders". Below this, there is a red button with the text "VISIT US AGAIN !!".

Contact Information (highlighted by a red box):

*Shop Timing
Shop walk in time : 10AM - 10PM
Phone Order : We take phone orders 24/7, call :
+91 99520 52333/+91 99520 81222
We are open on all national holidays and
weekends.
Palettenknife Chennai
Email: cakesquarechennai@gmail.com
Head Office : 5/79 Butt Road, Mount
Poonamallee High Road, St Thomas Mount,
Chennai- 600016.*





Date- 23/02/2021

1d) CSS 3: Borders, Text effects, Animation, and Transitions

<html>

<!-- TITLE & META--!>

<head>

<meta name="description" content="Review">

<meta name="keywords" content="

Cake Near Me Birthday Cake Bakeries near me Cake Bakeries online Top Cake Bakery
Wedding Cake Bakers Famous Bakery Custom Cakes Near My Bakery Wedding Cakes Cup
Cakes Baker Cake Bakery Shop Bakery And Cake Shop">

<title>Review</title>

<!-- EXTERNAL CSS !-->

<link rel="stylesheet" href="styles.css">

</head>

<!-- INTERNAL CSS --!>

<style>

body {background-color: bisque;}

p {color:#0000cd; text-align:center;}

.left{

text-align: left;

color: #a0522d;

font-style:italic;

}

#para2 {

text-align:center;

font-style:italic;

}

div {

width: 950px;

```

border: 15px solid navy;
padding: 50px;
margin: 20px;
animation-name: example;
animation-duration: 4s;
}

@keyframes example {
    0% {background-color: IndianRed; left:0px;}
    50% {background-color: bisque; left:200px;}
    100% {background-color: LightSalmon; left:0px;}
}
h1:hover {
    animation-name: example;
    animation-duration: 4s;
    text-align: left;
    color: #a0522d;
    font-style:italic;
}

h2.test {
    white-space: nowrap;
    width: 200px;
    overflow: hidden;
    border: 1px solid #000000;
}

h2.test:hover {
    overflow: visible;
}
</style>

<body>
    <!-- ANIMATIONS USING KEYFRAME IN DIV!-->
    <!-- BORDER USING IMAGE - DEFINITION IN EXTERNAL CSS !-->

<div id="bordering"><p id="para2">REVIEWS</p></div>

    <!-- TRANSITIONS - HOVER !-->

<h1 style ="color:#191970; font-size:25px; font-style:italic; text-align="left";">HERE ARE WHAT
SOME OF OUR AWESOME CLIENTS HAVE SAID ABOUT US!</h1>

<div><p style = "color:#009900; font-size:20px; font-style:italic; text-align="left";"> “Each time I
throw a party Palettenknife is my go-to. <mark>Manisha is beyond talented at what she
does</mark>. She has created some of the loveliest dessert spreads I have ever seen. She will go
through every detail with you until it’s just right. Everything is beautiful and delicious.”
— Jacqui<br><br></p>

<hr>

```

<p id="para2"> "Thank you sooooo much for the most <mark>delicious cupcakes!!!!</mark> They not only tasted out of this world fabulous, they looked wonderful with the custom, hand made butterflies and dragonflies decorations!!! When our families saw the cupcakes, they jokingly asked if we can have dessert first because they remember all the previous wonderful desserts that you made for our birthday dinners!! We enjoyed every bite!!!"

— Winnie

</p>

<hr>

<p style = "color:#009900; font-size:20px; font-style:italic; text-align="left";"> "As soon as I brought out the cake to place on the table, my daughter ran right over. She was speechless and it really took her breath away. I will never forget her facial expression, I could barely even make out "Is this my cake?" My guests loved it as well, they even made a line to take pictures. <mark>The cake was just so adorable </mark>and too pretty to cut. I really appreciate the time and effort and going out of your way to incorporate all the designs that my daughter wanted, from having Ariel on top, to not forgetting Flounder and Sebastian :) THANKS SO MUCH BGU! :)"

— Maria
</p></div>

<!-- TEXT EFFECT OVERFLOW HOVER !-->

<h2 class="test" style="text-overflow:clip;">Thank You for Spending time to read our reviews. We hope u have a great purchase at our shop !!</h2>

</body>
</html>

OUTPUT



REVIWS

HERE ARE WHAT SOME OF OUR AWESOME CLIENTS HAVE SAID ABOUT US!

"Each time I throw a party Palettenknife is my go-to. Manisha is beyond talented at what she does. She has created some of the loveliest dessert spreads I have ever seen. She will go through every detail with you until it's just right. Everything is beautiful and delicious." — Jacqui

"Thank you sooooo much for the most delicious cupcakes!!! They not only tasted out of this world fabulous, they looked wonderful with the custom, hand made butterflies and dragonflies decorations!!! When our families saw the cupcakes, they jokingly asked if we can have dessert first because they remember all the previous wonderful desserts that you made for our birthday dinners!! We enjoyed every bite!!! — Winnie

"As soon as I brought out the cake to place on the table, my daughter ran right over. She was speechless and it really took her breath away. I will never forget her facial expression, I could barely even make out "Is this my cake?" My guests loved it as well, they even made a line to take pictures. The cake was just so adorable and too pretty to cut. I really appreciate the time and effort and going out of your way to incorporate all the designs that my daughter wanted, from having Ariel on top, to not forgetting Flounder and Sebastian :) THANKS SO MUCH BGU! :)" — Maria

Thank You for Spec



RESULT-

The above codes were successfully executed to implement the concepts of HTML 4,5 and CSS 2,3.

Exp-2

Date- 02/03/2021

Form Validation & HTML DOM Manipulation

AIM-

- 2a. Form validation using Regular Expression
- 2b. HTML DOM Manipulation

PROCEDURE

- Create a html form to collect credit card details as input from user using **<form> tag**
- Using the **action** attribute, we specify the action that is to be performed by the form when submitted
- Get input from user using the **<input>** tag
- Specify type in **<input>** tag based on the input field. Egs- **<input type="text">**
- We use **<select>** tag & **<option>** to create a drop-down list to display the month and year options.
- Now we specify the validation for various fields within the **<script>** tag
- Using HTML DOM method **document.getElementById('value')** we get the element of id attribute with specified value .
- Now we perform **validations** on these by custom defined constraints
- In this code we have considered 3 types of credit cards – VISA , MASTER CARD & DINER'S CLUB Card
- The **regular expression** pattern is defined as follows:
 1. **VISA** = /^4?([0-9]{3})?[-]?([0-9]{4})?[-]?([0-9]{4})?[-]?([0-9]{4})?\$/ ;
 2. **MASTER** = /^(5?([1-5][0-9]{2})?[-]?([0-9]{4})?[-]?([0-9]{4})?[-]?([0-9]{4}))|(2?(22[1-9])?[-]?([0-9]{4})?[-]?([0-9]{4})?[-]?([0-9]{4}))|(22?([3-9][0-9])?[-]?([0-9]{4})?[-]?([0-9]{4})?[-]?([0-9]{4}))|(2?(3-6)[0-9]{2})?[-]?([0-9]{4})?[-]?([0-9]{4})?[-]?([0-9]{4}))|(27?([0-1][0-9])?[-]?([0-9]{4})?[-]?([0-9]{4})?[-]?([0-9]{4}))|((2720)?[-]?([0-9]{4})?[-]?([0-9]{4})?[-]?([0-9]{4}))\$/ ;
 3. **DINER'S** = /^3?((?:0[0-5]||[68][0-9])[0-9])?[-]?([0-9]{4})?[-]?([0-9]{4})?[-]?([0-9]{2})\$/ ;
- To implement DOM methods in this application we use Element and Document object methods
- Create a DOM Element using - var para = **document.createElement("p")**; &
- Dom TextNode using - var node = **document.createTextNode("Invalid card number")**;
- Append operation - **para.appendChild(node)**;
- Insert operation when an invalid card number is entered - **element.insertBefore(para, element.childNodes[0])**;
- Delete operation when the error is corrected by entering a valid card number - **parent.removeChild(parent.childNodes[0])**;

CODE

2a) Form Validation Using Regular Expression

```
<!DOCTYPE html>
<html lang="en">
<head>
<title>credit-card number validation</title>
<link rel='stylesheet' href='form-style.css' type='text/css'>
</head>
<script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.6.9/angular.min.js"></script>
<body onload='document.form1.text1.focus()'>
<div class="mail">
<h2>Input Credit Card No.(VISA)</h2>
<!-- <form action="/action_page.php"> !-->
<ul>
<li><h4>CARD HOLDER NAME</h4>
<input type='text' id='text3' name='text3'></li>
</ul>
<ul>
<li>
<h4>CARD NUMBER</h4>



<input type='text' id='text1' name='text1' placeholder="0000000000000000" ></li>
</ul>
<h2 id='dom'>CVV</h2>
<ul>
<li><input type='text' id='text2' name='text2' placeholder="XXX" ></li>
</ul>
<h2>Expiration Date</h2>
<ul>
<select id="expiryMonth">
    <option selected> Month </option>
    <option>01</option>
    <option>02</option>
    <option>03</option>
    <option>04</option>
    <option>05</option>
    <option>06</option>
    <option>07</option>
    <option>08</option>
    <option>09</option>
    <option>10</option>
    <option>11</option>
    <option>12</option>
</select>
<select id="expiryYear">
    <option selected>Year</option>
```

```

        <option>2018</option>
        <option>2019</option>
        <option>2020</option>
        <option>2021</option>
        <option>2022</option>
        <option>2023</option>
        <option>2024</option>
        <option>2025</option>
        <option>2026</option>
        <option>2027</option>
        <option>2028</option>
        <option>2029</option>
        <option>2030</option>
    </select>
</ul>
<ul>
<p>last modified @ <span id="modify"></span></p>
<li class="submit"><input type="submit" name="submit" value="Submit" onclick="return myfunction()" /></li>
</div>
<script>
function myfunction()
{
    document.getElementById('modify').innerHTML=document.lastModified;
    var form = document.getElementById('form1');
    var cc= document.getElementById('text1');
    var cvv1= document.getElementById('text2');
    var name1= document.getElementById('text3');
    var expiryMonth = document.getElementById('expiryMonth');
    var expiryYear = document.getElementById('expiryYear');
    var cardno1 = /^4?([0-9]{3})?[-]?([0-9]{4})?[-]?([0-9]{4})?[-]?([0-9]{4})?$/ ;
    var cardno2 = /^(5?([1-5][0-9]{2})?[-]?([0-9]{4})?[-]?([0-9]{4})?[-]?([0-9]{4}))|(2?(22[1-9])?[-]?([0-9]{4})?[-]?([0-9]{4})?[-]?([0-9]{4}))|(22?([3-9][0-9])?[-]?([0-9]{4})?[-]?([0-9]{4})?[-]?([0-9]{4}))|(2?([3-6][0-9]{2})?[-]?([0-9]{4})?[-]?([0-9]{4})?[-]?([0-9]{4}))|(27?([0-1][0-9])?[-]?([0-9]{4})?[-]?([0-9]{4})?[-]?([0-9]{4}))$ ;
    var cardno3 = /(^3?((?:0[0-5]|68)[0-9])[0-9])?[-]?([0-9]{4})?[-]?([0-9]{4})?[-]?([0-9]{2})$/;
    var letters = /^[A-Za-z ]+$/;
    if(name1.value.match(letters));
    else
    { alert("Enter name with alphabets alone ");
    }
    if(cc.value=="" || cc.value==null)
    {
        alert("Please enter card number");
    }
    if(cvv1.value=="" || cvv1.value==null)
    {
        alert("Please enter CVV");
    }
    if(name1.value=="" || name1.value==null)

```

```

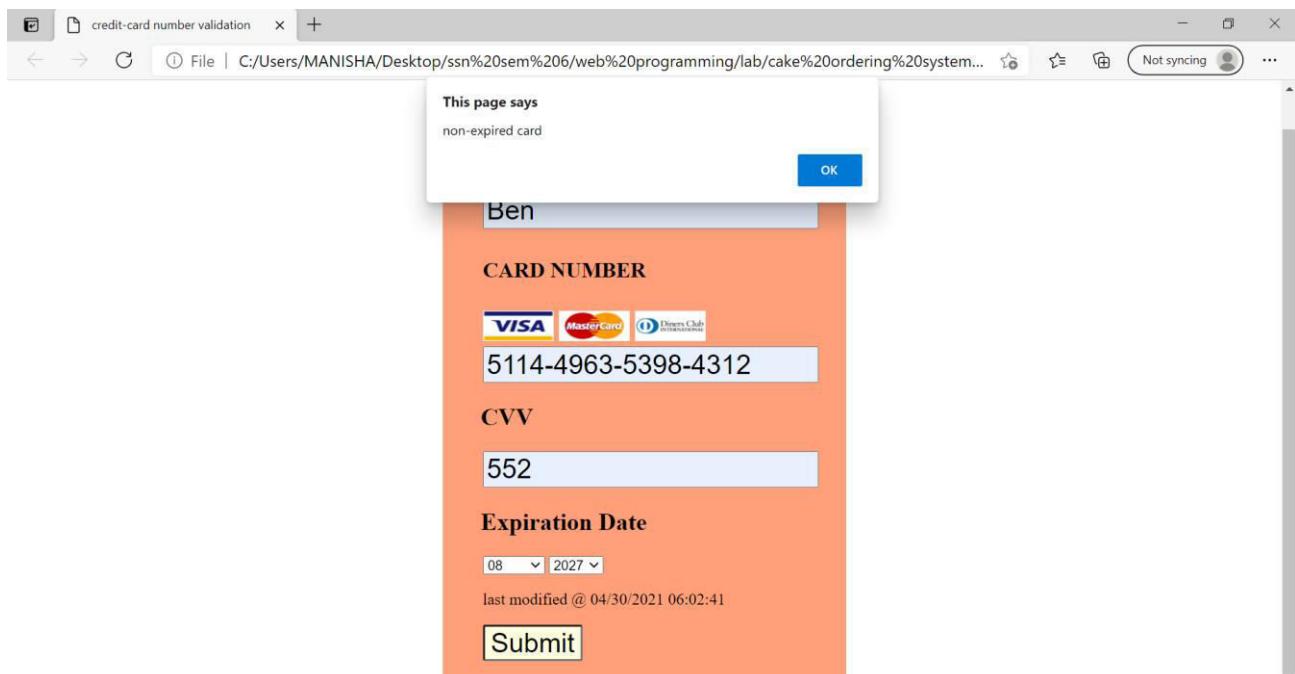
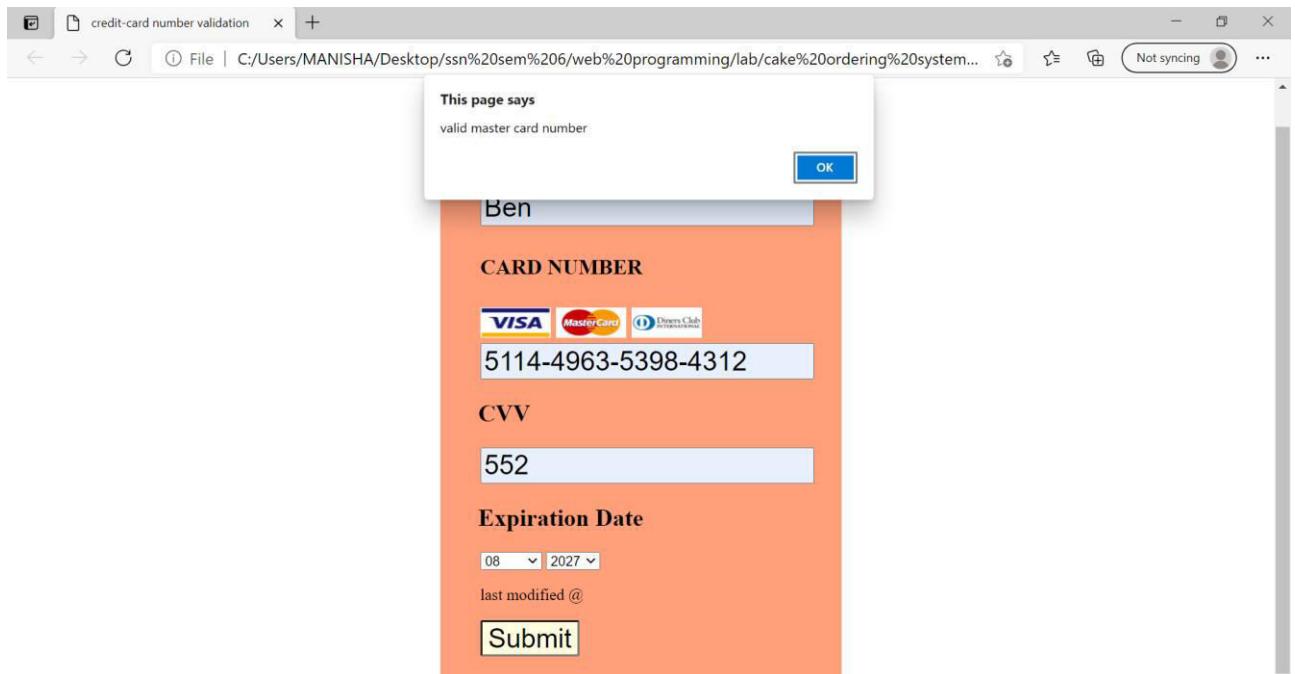
{
    alert("please enter valid Card holder name");
}
if(cc.value.match(cardno1))
{
    alert("valid visa card number");
}
else if(cc.value.match(cardno2))
{
    alert("valid master card number");
}
else if(cc.value.match(cardno3))
{
    alert("valid diner's club card number");
}
else
{
    alert("Invalid card number");
}

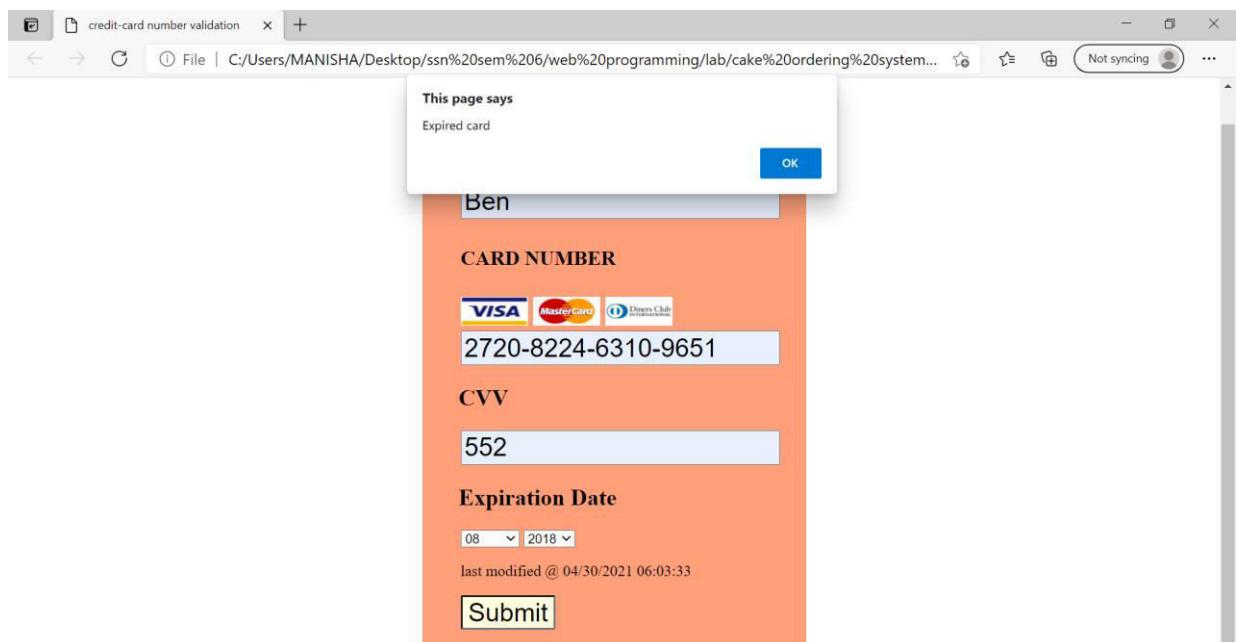
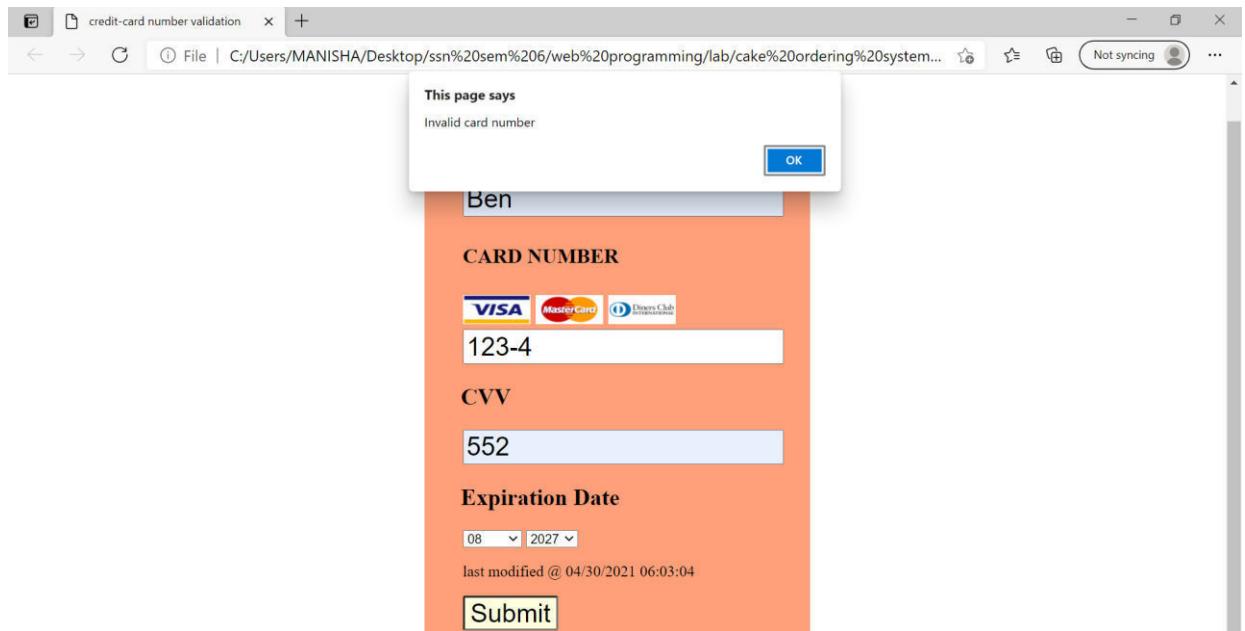
var month = expiryMonth.value;
var year = expiryYear.value;
var d = new Date();
if(year<d.getFullYear())
{
    alert("Expired card");
}
else if(month>d.getMonth())
{
    alert("non-expired card");
}
else
{
    alert("Expired card");
}

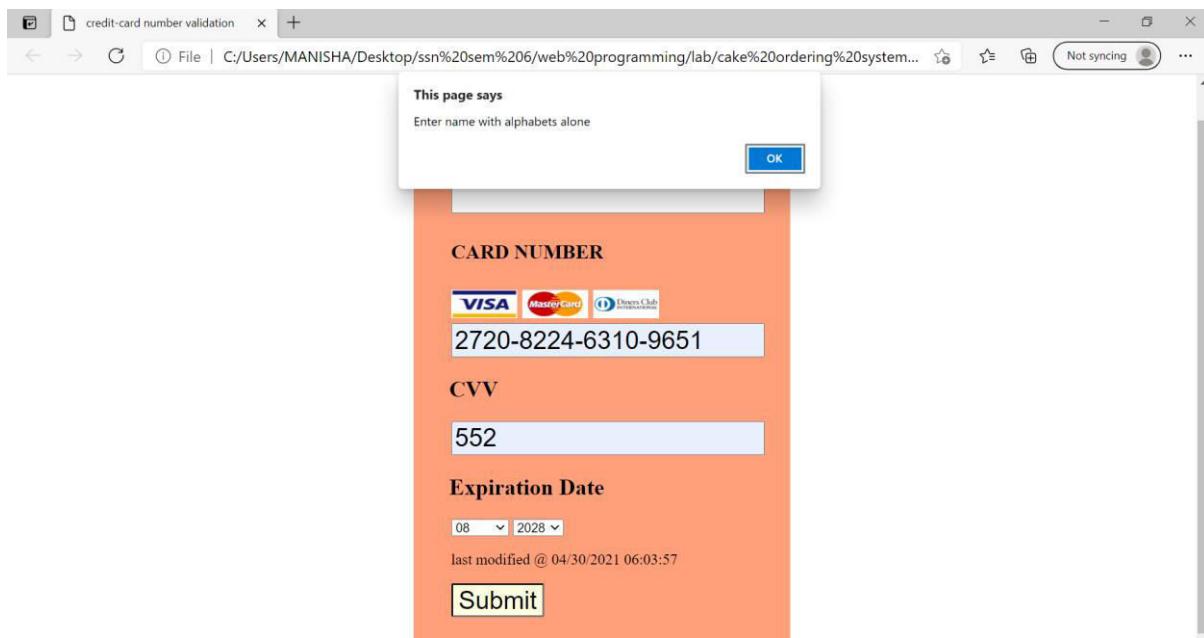
return false;
}
</script>
</body>
</html>

```

OUTPUT







2b) HTML DOM Manipulation

Card.html

```
<!DOCTYPE html>
<html lang="en">
<head>
<title>credit-card number validation</title>
<link rel='stylesheet' href='form-style.css' type='text/css'>
</head>
<script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.6.9/angular.min.js"></script>
<body onload='document.form1.text1.focus()'>
<div class="mail">
<h2>Input Credit Card No.(VISA)</h2>

<!--<form name="form1" action="#">--!>
<ul>
<li><h4>CARD HOLDER NAME</h4>
<input type='text' id='text3' name='text3'></li>
</ul>
<ul>
<li>
<h4>CARD NUMBER</h4>



<input type='text' id='text1' name='text1' placeholder="0000000000000000" ></li>
</ul>
<h2 id='dom'>CVV</h2>
<ul>
<li><input type='text' id='text2' name='text2' placeholder="XXX" ></li>
</ul>
```

```

<h2>Expiration Date</h2>
<ul>
<select id="expiryMonth">
    <option selected> Month </option>
    <option>01</option>
    <option>02</option>
    <option>03</option>
    <option>04</option>
    <option>05</option>
    <option>06</option>
    <option>07</option>
    <option>08</option>
    <option>09</option>
    <option>10</option>
    <option>11</option>
    <option>12</option>
</select>
<select id="expiryYear">
    <option selected>Year</option>
    <option>2018</option>
    <option>2019</option>
    <option>2020</option>
    <option>2021</option>
    <option>2022</option>
    <option>2023</option>
    <option>2024</option>
    <option>2025</option>
    <option>2026</option>
    <option>2027</option>
    <option>2028</option>
    <option>2029</option>
    <option>2030</option>
</select>
</ul>
<ul>
<p>last modified @ <span id="modify"> </span></p>
<li class="submit"><input type="submit" name="submit" value="Submit" onclick="return myfunction()"/></li>
</div>
<script>
function myfunction()
{
    document.getElementById('modify').innerHTML=document.lastModified;
    var form = document.getElementById('form1');
    var cc= document.getElementById('text1');
    var cvv1= document.getElementById('text2');
    var name1= document.getElementById('text3');
    var expiryMonth = document.getElementById('expiryMonth');
    var expiryYear = document.getElementById('expiryYear');
    var cardno1 = /[^4?([0-9]{3})?[-]?([0-9]{4})?[-]?([0-9]{4})?[-]?([0-9]{4})?$/ ;

```

```

var cardno2 = /^(5?([1-5][0-9]{2})?[-]?([0-9]{4})?[-]?([0-9]{4})?[-]?([0-9]{4}))|(2?(22[1-9])?[-]?([0-9]{4})?[-]?([0-9]{4})?[-]?([0-9]{4}))|(22?([3-9][0-9])?[-]?([0-9]{4})?[-]?([0-9]{4})?[-]?([0-9]{4}))|(2?([3-6][0-9]{2})?[-]?([0-9]{4})?[-]?([0-9]{4})?[-]?([0-9]{4}))|(27?([0-1][0-9])?[-]?([0-9]{4})?[-]?([0-9]{4})?[-]?([0-9]{4}))|((2720)?[-]?([0-9]{4})?[-]?([0-9]{4})?[-]?([0-9]{4})))$/ ;

var cardno3 = /^3?((?:0[0-5]|[68][0-9])[0-9])?[-]?([0-9]{4})?[-]?([0-9]{4})?[-]?([0-9]{2})$/;
var letters = /^[A-Za-z ]+$/;
if(name1.value.match(letters));
else
{ alert("Enter name with alphabets alone ");
}
if(cc.value=="" || cc.value==null)
{
    alert("Please enter card number");
}
if(cvv1.value=="" || cvv1.value==null)
{
    alert("Please enter CVV");
}
if(name1.value=="" || name1.value==null)
{
    alert("please enter valid Card holder name");
}
if(cc.value.match(cardno1))
{
    var parent = document.getElementById("dom");
    parent.removeChild(parent.childNodes[0]);
    alert("valid visa card number");
}
else if(cc.value.match(cardno2))
{
    var parent = document.getElementById("dom");
    parent.removeChild(parent.childNodes[0]);
    alert("valid master card number");
}
else if(cc.value.match(cardno3))
{
    var parent = document.getElementById("dom");
    parent.removeChild(parent.childNodes[0]);
    alert("valid diner's club card number");
}
else
{
    var para = document.createElement("p");
    var node = document.createTextNode("Invalid card number");
    para.appendChild(node);
    var element = document.getElementById("dom");
    element.insertBefore(para, element.childNodes[0]);
}

```

```

var month = expiryMonth.value;
var year = expiryYear.value;
var d = new Date();
if(year<d.getFullYear())
{
    alert("Expired card");
}
else if(month>d.getMonth())
{
    alert("non-expired card");
}
else
{
    alert("Expired card");
}

return false;
}
</script>
</body>
</html>

```

OUTPUT

The screenshot shows a web browser window with the title "credit-card number validation". The main content is a form titled "Input Credit Card No.(VISA)". The form fields are as follows:

- CARD HOLDER NAME: Ella
- CARD NUMBER: 5114-1
- CVV: 552
- Expiration Date: 08/2018
- last modified @ (a small note)
- Submit button

credit-card number validation

CARD HOLDER NAME
Ella

CARD NUMBER

5114-1

Invalid card number

CVV
552

Expiration Date
08 2018

last modified @ 03/29/2021 21:48:55

Submit

This page says
valid master card number

OK

CARD NUMBER

5500-0000-0000-0000

Invalid card number

CVV
552

Expiration Date
08 2024

last modified @ 03/29/2021 21:48:55

Submit

This page says
valid diner's club card number

OK

Ella

CARD NUMBER

3000-0000-0000-40

CVV
552

Expiration Date
10 2026

last modified @

Submit

Form-styles.css – (Common CSS File used for all the above codes)

```
li {list-style-type: none;  
font-size: 16pt;  
}  
.mail {  
margin: auto;  
padding-top: 10px;  
padding-bottom: 10px;  
width: 400px;  
background : #FFA07A;  
border: 1px solid  
silver;  
}  
.mail h2 {  
margin-left: 38px;  
}  
input {  
font-size: 20pt;  
}  
input:focus, textarea:focus{  
background-color:  
lightyellow;  
}  
input submit {  
font-size: 12pt;  
}  
.rq {  
color:  
#FF0000;  
font-size: 10pt;  
}
```

RESULT-

The above codes were successfully executed to validate a form and implement HTML DOM .

Exp-3

Date- 09/03/2021

Angular programs to implement a Calculator , Component, Service & Controller and search to filter items

AIM-

- 3a. Simple Calculator using Angular JS
- 3b. Angular program to implement Components, Service, and Controllers
- 3c. Angular program to implement search to filter items

PROCEDURE

- Use **angular directives** to create angular JS code by using a prefix 'ng-'
- First we initialise our Angular JS application using '**ng-app**' directive named "DemoApp"
- We use '**ng-init**' directive to initialise data and '**ng-model**' directive to bind the values of HTML controls to application data – Egs - <input type="operation" ng-model="operation"> binds the input entered to the application data operation.
- We display the result using **Data Binding** – Egs – **{{result}}** which is bound by ng-model="result"
- Use '**ng-controller**' directive to control the data of angular JS application – Egs- <div ng-app="DemoApp" ng-controller="myController">
- The 'myController' function is a JavaScript function.
- AngularJS will invoke the controller with **a \$scope object** which is application object
- Egs- app.controller('myController', function(\$scope, CalcService) {
 \$scope.AddMe = function() {} }
 app.service('CalcService', function() {})
- In our example we use **app.service** to contain the logical part(arithmetic operations)
- Use Angular JS components - Egs- **app.component("hello",{ template:'Arithmetic operation' });**
- Use angular js **filter concept** to display (filter out) items based on input - <li ng-repeat="x in names2 | filter:test">
- Use inbuilt filters like **\$currency** to display amount - <h1>total: {{total | currency }}</h1>

CODE

3a) Simple Calculator using Angular JS

```

<html>
<head> <title>AngularJS Expressions</title>
<link rel="stylesheet" href="styles.css"> </head>
<body>
<h1 id="bordering" class="style1" align="center">Arithmetic Operations</h1>
<script src="https://code.angularjs.org/1.6.9/angular-route.js"></script>
<script src="https://code.angularjs.org/1.6.9/angular.min.js"></script>
<script src="https://code.jquery.com/jquery-3.3.1.min.js"></script>

<div ng-app="DemoApp" ng-controller="myController" id="bordering" class="style1" align="center">
<p>Enter First Operand</p>

```

```

<input type="number" ng-model="number1">
<p>Enter Second Operand</p>
<input type="number" ng-model="number2">
<p>Enter Operator</p>
<input type="operation" ng-model="operation">
<p>Result is</p>
<p>{{result}}</p>
<input type="button" ng-click="AddMe()" value="Result">
</div>

<script type="text/javascript">
var app = angular.module('DemoApp',[]);
app.controller('myController', function($scope) {

$scope.operations = [ '+', '-', '*', '/', '%' ];
$scope.AddMe = function() {

var num1 = $scope.number1;
var num2 = $scope.number2;

switch ($scope.operation) {
case '+':
$scope.result = parseInt(num1) + parseInt(num2);
break;
case '-':
$scope.result = parseInt(num1) - parseInt(num2);
break;
case '*':
$scope.result = parseInt(num1) * parseInt(num2);
break;
case '/':
$scope.result = parseInt(num1) / parseInt(num2);
break;
case '%':
$scope.result = parseInt(num1) % parseInt(num2);
break;
default:
$scope.result = "Invalid Selection ";
break;
}

}
};

});
</script>

</body>
</html>

```

OUTPUT

The image shows two screenshots of a web browser window titled "AngularJS Expressions". The URL in the address bar is "C:/Users/MANISHA/Desktop/ssn%20sem%206/web%20programming/lab/cake%20ordering%20system...". The browser interface includes standard controls like back, forward, and search.

Screenshot 1 (Top): Addition

The title is "Arithmetic Operations". The form fields are:

- Enter First Operand: 12
- Enter Second Operand: 12
- Enter Operator: +

The result is displayed as "Result is 24".

Screenshot 2 (Bottom): Division

The title is "Arithmetic Operations". The form fields are:

- Enter First Operand: 12
- Enter Second Operand: 12
- Enter Operator: /

The result is displayed as "Result is 1".

AngularJS Expressions

File | C:/Users/MANISHA/Desktop/ssn%20sem%206/web%20programming/lab/cake%20ordering%20system... Not syncing ...

Arithmetic Operations

Enter First Operand

Enter Second Operand

Enter Operator

Result is
144

AngularJS Expressions

File | C:/Users/MANISHA/Desktop/ssn%20sem%206/web%20programming/lab/cake%20ordering%20system... Not syncing ...

Arithmetic Operations

Enter First Operand

Enter Second Operand

Enter Operator

Result is
0



3b) Angular program to implement Components, Service, and Controllers

```

<html>
<head> <title>AngularJS Expressions</title>
<link rel="stylesheet" href="styles.css">
</head>
<body>

<script src="https://code.angularjs.org/1.6.9/angular-route.js"></script>
<script src="https://code.angularjs.org/1.6.9/angular.min.js"></script>
<script src="https://code.jquery.com/jquery-3.3.1.min.js"></script>
<div ng-app="DemoApp" ng-controller="myController">
<h1 id="bordering" class="style1" align="center"><hello></hello></h1>
<h1 id="bordering" class="style1" align="center">
<p>Enter First Operand</p>

```

```

<input type="number" ng-model="val1">
<p>Enter Second Operand</p>
<input type="number" ng-model="val2">
<p>Enter Operator</p>
<input type="operation" ng-model="operation">
<p>Result is</p>
<p>{{result}}</p>
<input type="button" ng-click="AddMe()" value="Result">
</h1>
</div>
<script>
var app=angular.module('DemoApp',[])
app.service('CalcService', function() {
    this.add=function(value1,value2){
        return parseInt(value1) + parseInt(value2);
    }
    this.subtract=function(value1,value2){
        return parseInt(value1) - parseInt(value2);
    }
    this.divide=function(value1,value2){
        return parseInt(value1) / parseInt(value2);
    }
    this.multiply=function(value1,value2){
        return parseInt(value1) * parseInt(value2);
    }
    this.mod=function(value1,value2){
        return parseInt(value1) % parseInt(value2);
    }
});
app.controller('myController', function($scope, CalcService) {
    $scope.AddMe = function() {
        switch ($scope.operation) {
            case '+':
                $scope.result = CalcService.add($scope.val1, $scope.val2);
                break;
            case '-':
                $scope.result = CalcService.subtract($scope.val1, $scope.val2);
                break;
            case '/':
                $scope.result = CalcService.divide($scope.val1, $scope.val2);
                break;
            case '*':
                $scope.result = CalcService.multiply($scope.val1, $scope.val2);
                break;
            case '%':
                $scope.result = CalcService.mod($scope.val1, $scope.val2);
                break;
            default:
                $scope.result = "Invalid Selection ";
                break;
        }
    }
})

```

```

        }
    });
app.component("hello",{
template:'Arithmetic operation'
});

</script>

</body> </html>

```

OUTPUT

The image contains two screenshots of a web browser window titled "AngularJS Expressions". Both screenshots show a form for performing arithmetic operations:

- Top Screenshot (Addition):**
 - Enter First Operand:** 1000
 - Enter Second Operand:** 200
 - Enter Operator:** +
 - Result is:** 1200
- Bottom Screenshot (Subtraction):**
 - Enter First Operand:** 1000
 - Enter Second Operand:** 200
 - Enter Operator:** -
 - Result is:** 800

AngularJS Expressions

File | C:/Users/MANISHA/Desktop/ssn%20sem%206/web%20programming/lab/cake%20ordering%20s... Not syncing ...

Arithmetic operation

Enter First Operand

Enter Second Operand

Enter Operator

Result is

5

Result

AngularJS Expressions

File | C:/Users/MANISHA/Desktop/ssn%20sem%206/web%20programming/lab/cake%20ordering%20s... Not syncing ...

Arithmetic operation

Enter First Operand

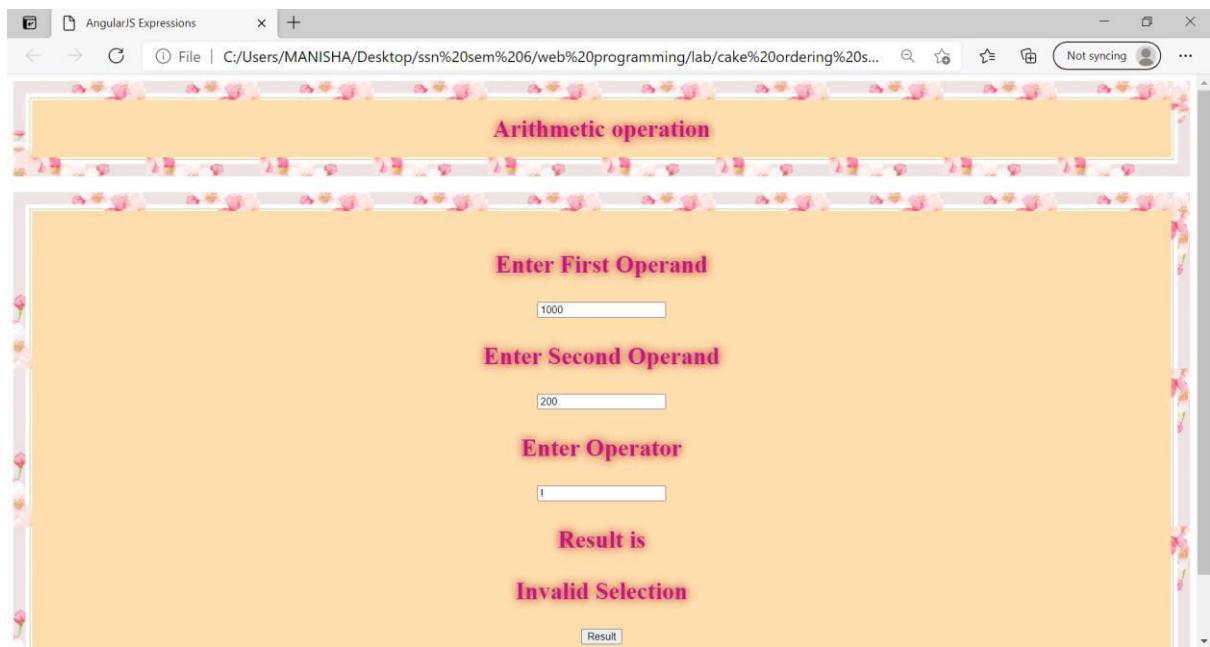
Enter Second Operand

Enter Operator

Result is

0

Result



3c) Angular program to implement search to filter items

```

<!DOCTYPE html>
<html>
<head>
<link rel="stylesheet" href="styles.css">
</head>
<script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.6.9/angular.min.js"></script>
<body>

<table width="800" border="0" align="center" cellpadding="5">

    <tr>

        <h1 id="bordering" class="style1" align="center">Welcome to Palettenknife Cakes &
Bakes </h1></div>
    </tr>

<div ng-app="myApp" ng-controller="namesCtrl" ng-init="overall=0">

<h2 class="header">Search a cake you wanna buy-
<input type="text" ng-model="test"></h2>

<ul id="bordering" align="center" class="style1">
<h1 align="center"><b>PASTRIES</b></h1>
<li ng-repeat="x in names | filter:test">
    
    {{ x.name }}
    <input type="button" ng-click="AddMe1(x)" value="1 Kg">
    <input type="button" ng-click="AddMe2(x)" value="1/2 Kg">
    <p>total- {{x.total}}</p>

```

```

</li>

</ul>

<ul id="bordering" align="center" class="style1">
<h1 align= "center"><b>CUPCAKES</b></h1>
<li ng-repeat="x in names1 | filter:test">

{{ x.name }}
<input type="button" ng-click="AddMe3(x)" value="ADD To CART">
<p>total- {{x.total}}</p>
</li>

</ul>

<ul id="bordering" align="center" class="style1">
<h1 align= "center"><b>ICE CREAM CAKES</b></h1>
<li ng-repeat="x in names2 | filter:test">

{{ x.name }}
<input type="button" ng-click="AddMe1(x)" value="1 Kg">
<input type="button" ng-click="AddMe2(x)" value="1/2 Kg">
<p>total- {{x.total}}</p>
</li>

</ul>

<ul id="bordering" align="center" class="style1">
<li>Total amount to be paid - {{overall}}</li>
<li><a href="file:///C:/Users/MANISHA/Desktop/ssn%20sem%206/web%20programming/lab/cake%20ordering%20system/ex%204%20-%20filter%20&%205-%20db/master%20card.html">Proceed to Pay</a>
</li>
</ul>

<a href = "mailto:gminsha2000@gmail.com?subject = Feedback&body = 1233">Send Email</a>
</div>
<script>
angular.module('myApp', []).controller('namesCtrl', function($scope) {
  $scope.names = [
    {name:'Truffle Cake',cost1:1000,cost2:500,total:0,image:'truffle.jpg' },
    {name:'Pineapple pastry',cost1:800,cost2:400,total:0,image:'pp.jpg' },
    {name:'Ebony and Ivory',cost1:1200,cost2:600,total:0,image:'e&i.jpg' },
    {name:'Chocolate Bliss',cost1:800,cost2:400,total:0,image:'cb.jpg' },
    {name:'Butterscotch cake',cost1:800,cost2:400,total:0,image:'butterscotch.jpg' },
  ];
  $scope.names1=[{name:'Mocha cupcake',cost1:100,total:0,image:'mocha.jpg' },{name:'Tiramisu Cupcake',cost1:150,total:0,image:'Tiramisu.jpg' },{name:'cookie n cream cupcake ',cost1:80,total:0,image:'cnc.jpg' }];

```

```

$scope.names2 = [
  {name:'Black Forest Cake',cost1:1800,cost2:900,total:0,image:'icc 1.jpg' },
  {name:'Red Velvet cake',cost1:2000,cost2:1000,total:0,image:'icc 2.jpg' },
  {name:'Swiss Choco symphony',cost1:1600,cost2:800,total:0,image:'icc 3.jpg' },
  {name:'Mango Kingdom',cost1:2200,cost2:1100,total:0,image:'icc 4.png' },
  {name:'Rich Blackcurrent',cost1:1800,cost2:900,total:0,image:'icc 5.jpg' },
];
$scope.AddMe1 = function(x) {
var tot=x.total;
var c1=x.cost1;
var ot=$scope.overall;
x.total=parseInt(tot)+parseInt(c1);
$scope.overall=parseInt(c1)+parseInt(ot);
}
$scope.AddMe2 = function(x) {
var tot=x.total;
var c2=x.cost2;
var ot=$scope.overall;
x.total=parseInt(tot)+parseInt(c2);
$scope.overall=parseInt(c2)+parseInt(ot);
}
$scope.AddMe3 = function(x) {
var tot=x.total;
var c1=x.cost1;
var ot=$scope.overall;
x.total=parseInt(tot)+parseInt(c1);
$scope.overall=parseInt(c1)+parseInt(ot);
}
});
</script>

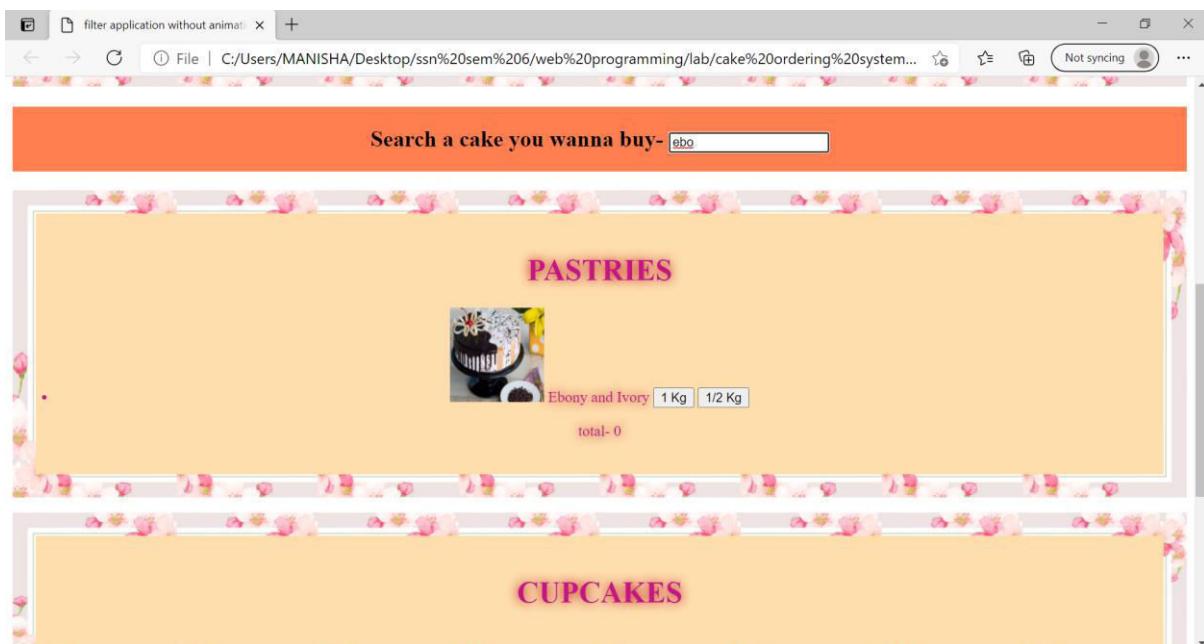
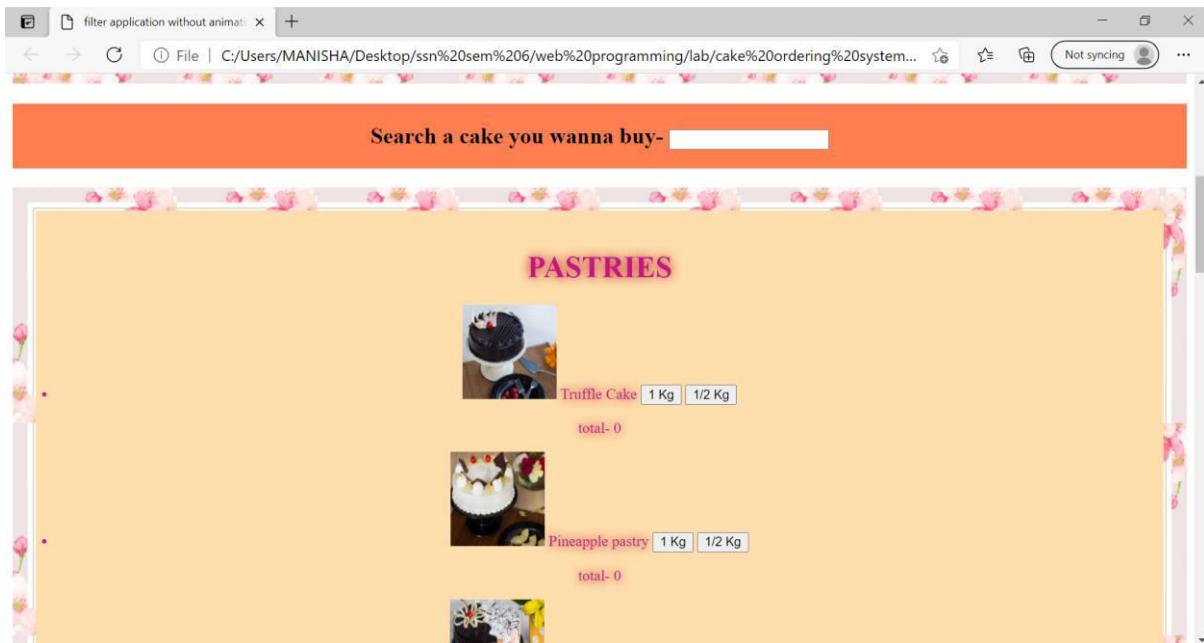
```

```

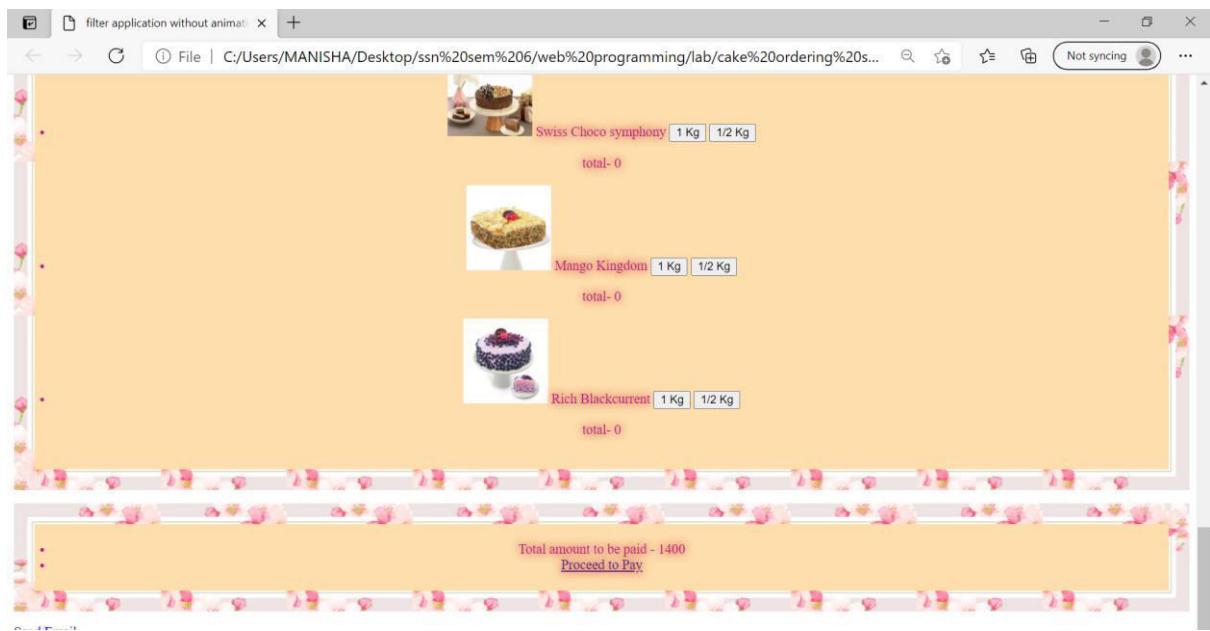
</body>
</html>

```

OUTPUT







RESULT-

The above code was successfully executed to implement simple calculator in AngularJs & implement angularJS service, component , controller & filter concepts.

Exp-4

Date- 16/03/2021

Angular program for navigation menu

AIM-

Write an Angular program for navigation menu

PROCEDURE

- We **navigate** to different pages of our application using **SPA – single page application** without reloading
- Use '**ng-Route**' directive to route to parts of our application like Review, Geolocation & login pages without reloading it. - let app = angular.module('myApp', ['ngRoute']);
- Add **route module** -
`<script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.6.9/angular-route.js"></script>`
- Use the **\$routeProvider** to configure different routes in your application- & **config** method will be performed when the application is loading.
`app.config(function($routeProvider) {
 $routeProvider
 .when("/review", {
 templateUrl:"reviews.htm"
 })
 .when("/location", {
 templateUrl : "geolocation.html"
 })
 .when("/login", {
 templateUrl : "login.html"
 });
});`
- To display the content returned by the routing module we use 'ng-view' directive - `<div ng-view> </div>`

CODE

Fom.html

```
<!DOCTYPE html>
<html>
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.6.0/jquery.min.js"></script>
<script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.6.9/angular.js"></script>
<script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.6.9/angular-route.js"></script>
<!-- TITLE & META-->
<head>
    <meta name="description" content="An Online Cake Ordering System">
    <meta name="keywords" content=""
```

```

Cake Near Me Birthday Cake Bakeries near me Cake Bakeries online Top Cake Bakery
Wedding Cake Bakers Famous Bakery Custom Cakes Near My Bakery Wedding Cakes Cup
Cakes Baker Cake Bakery Shop Bakery And Cake Shop">
<title>Online Cake Ordering System</title>
<link rel="stylesheet" href="styles.css">
</head>
<style>

</style>

<body ng-app="myApp">

<!--HOTSPOT CREATION --!>
<div class="container">

<!-<div class="top-left"><strong>REVIEWS<strong></div>--!>
</div>

<map name="pastry">
<!-<area shape="circle" coords="34,44,270,350" alt="Customer Feedback"
href="file:///C:/wamp64/www/reviews.htm">--!>

<table width="800" border="0" align="center" cellpadding="5">
<tr>
<!-- HEADER - H1 & LAYOUT HEADER-- & STICKY POSITION --!>
<h1 id="bordering" class="style1" align="center">Welcome to Palettenknife Cakes &
Bakes </h1></div>
<br></br>
<div class="header sticky">Use code PNK10 to avail 10%off on all orders</h1></div>
</tr>
<tr>
<td>
<!-- INTERNAL LINKING --!>
<!-- NAVIGATION BAR (LAYOUT) & PSEUDO SELECTOR (ANCHOR ELEMENT HOEVER) -
-!>
<div class="topnav">
<a href="#About">About</a>
<a href="#Pastries">Pastries</a>
<a href="#Cupcakes">Cupcakes</a>
<a href="#Icecream cakes">Icecream cakes</a>

<!-- EXTERNAL LINKING --!>
<a href="#!review">Review</a>
<a href="#!login">Login</a>
<a href="#!location">Location</a>
<!-<a
href="file:///C:/Users/MANISHA/Desktop/ssn%20sem%206/web%20programming/lab/cake%20ord
ering%20system/login.html">Login</a>--!>
<a href="https://www.sangeethaveg.com/">Our Veg Restaurant</a>

```

```

<!--<a
href="file:///C:/Users/MANISHA/Desktop/ssn%20sem%206/web%20programming/lab/cake%20ord
ering%20system/geolocation.html">Location</a>--!>
</div>

<div ng-view>
</div>

</td>
</tr>
<table width="800" border="0" align="center" cellpadding="5">
<tr>
    <a id="About"><td align= "center" colspan="10" style="background-
color:#9FE2BF"><b>About</b></td></a>
</tr>
<tr>
    <!-- PARAGRAPH--!>
    <td colspan="15">
        <article>
            <p style ="color:#c71585; font-size:22px; font-style:italic; text-
align="left";">A <strong>pioneer in the online cake </strong>shop model with associated home
delivery services in Chennai, we cater for all occasions and events like weddings, birthday parties,
engagement parties, and anniversaries. <br>Palettenknife ,Chennai brings a<strong> rich culinary
experience </strong>to the subtle art of baking and cake making. Using traditional techniques and
the best ingredients, we offer cakes in a delicious variety of flavours.<br><strong>Exceptional
customer service </strong>complements our baking excellence and we go the extra mile in
undertaking 'midnight cake delivery' and 'doorstep delivery' for your special
occasion.</p></article></td>
        </tr>

<tr>
    <a id="Pastries"><td align= "center"
colspan="10" style="background-color:#9FE2BF"><b>Pastries</b></td></a>
</tr>

<!-- SIMPLE TABLE WITH TH,TR,TD--!>
<!-- IMAGE --!>
<!-- UNORDERED LIST --!>

<table width="800" border="0" align="center" cellpadding="5">
<tr>
    <th align="left">Cakes</th>
    <th align="left">Rate/Kg </th>
    <th align="left">Rate/ 1/2 Kg</th>
</tr>
<ul>
<tr>

```

```

        <td><li><strong>Truffle Cake</strong></li></td>
        <td>1000</td>
        <td>500</td>

    </tr>
    <tr>
        <td><li><strong>Pineapple pastry</strong></li></td>
        <td>800</td>
        <td>400</td>

    </tr>
    <tr>
        <td><li><strong>Ebony and Ivory</strong></li></td>
        <td>1200</td>
        <td>600</td>

    </tr>
    <tr>
        <td><li><strong>butterscotch cake</strong></li></td>
        <td>800</td>
        <td>400</td>

    </tr>
    <tr>
        <td><li><strong>Chocolate Bliss</strong></li></td>
        <td>800</td>
        <td>400</td>

    </tr>
    </ul>
    </tr>
    </table>

```

```

<table width="800" border="0" align="center" cellpadding="5">
    <tr>
        <a id="Cupcakes"><td align= "center" colspan="10" style="background-
color:#9FE2BF"><b>Cup Cakes</b></td></a>
    </tr>
    <tr>
        <th align="left">Cakes</th>
        <th align="left">Rate/pc </th>
    </tr>

    <!-- ORDERED LIST --!>
    <table width="800" border="0" align="center" cellpadding="5">

        <tr>
            <td>

```

```

<col type="1" >
    <li> <pre><strong>Mocha</strong> 100 </pre></li>
    <li> <pre><strong>Tiramisu</strong> 150 </pre></li>
        <li> <pre><strong>cookie n cream</strong> 80 </pre></li>
    </ol>
</td>
</tr>

</table>

<table width="800" border="0" align="center" cellpadding="5">
    <tr>
        <a id="Icecream cakes"><td align= "center" colspan="10" style="background-
color:#9FE2BF"><b>IceCream Cakes</b></td></a>
    </tr>
    <tr>
        <th align="left">Cakes</th>
        <th align="left">Rate/Kg </th>
        <th align="left">Rate/ 1/2 Kg</th>
    </tr>
    <ul>
        <tr>
            <td><li><strong>Black Forest Cake</strong></li></td>
            <td>1800</td>
            <td>900</td>
        </tr>
        <tr>
            <td><li><strong>Red Velvet Cake</strong></li></td>
            <td>2000</td>
            <td>1000</td>
        </tr>
        <tr>
            <td><li><strong>Swiss Choco symphony</strong></li></td>
            <td>1600</td>
            <td>800</td>
        </tr>
        <tr>
            <td><li><strong>Mango Kingdom</strong></li></td>
            <td>2200</td>
            <td>1100</td>
        </tr>
    <tr>

```

```

<td><li><strong>Rich Blackcurrent</strong></li></td>
<td>1800</td>
<td>900</td>
</tr>
</ul>
</tr>
</table>

<footer>
<table width="800" border="0" align="center">
<tr align="center">
<td>

<svg height="130" width="500" >
<defs>
<linearGradient id="grad1" x1="0%" y1="0%" x2="100%" y2="0%">
<stop offset="0%" style="stop-color:#FFEBBC;stop-opacity:1" />
<stop offset="100%" style="stop-color:#FF0000;stop-opacity:1" />
</linearGradient>
</defs>
<rect width="650" height="50" fill="url(#grad1)" />
<text fill="#FF0000" font-size="20" font-family="Verdana" x="175" y="25">CONTACT
US</text>
Sorry, your browser does not support inline SVG.
</svg>
</td>
</tr>
<table width="800" border="0" align="center">
<tr align="center">
<td>
<div class="foot"><article style = "color:#c71585; font-size:15px; font-
style:italic;background-color: bisque;">Shop Timing<br>Shop walk in time : 10AM - 10PM
<br>Phone Order : We take phone orders 24/7, call : +91 99520 52333/+91 99520 81222 <br>We
are open on all national holidays and weekends.<br>Palettenknife Chennai<br>Email:
cakesquarechennai@gmail.com<br><br>Head Office : 5/79 Butt Road, Mount Poonamalee High
Road, St Thomas Mount, Chennai- 600016.<br></article>
</td>
</tr>

</footer>

<script>
let app = angular.module('myApp', ['ngRoute']);
app.config(function($routeProvider) {
  $routeProvider
    .when("/review",{
      templateUrl:"reviews.htm"
    })
    .when("/location", {

```

```

        templateUrl : "geolocation.html"
    })
.when("/login", {
    templateUrl : "login.html"
});
});
</script>
</body>
</html>

```

Geolocation.html

```

<!DOCTYPE html>
<html>
<header>
</header>
<body>

<p style = "color:#009900; font-size:15px; font-style:italic; text-align="left";"><strong>KNOW YOU
LOCATION</strong></p>

<button onclick="getLocation()">Try It</button>

<p id="demo"></p>

<script>
var x = document.getElementById("demo");

function getLocation() {
    if (navigator.geolocation) {
        navigator.geolocation.getCurrentPosition(showPosition);
    } else {
        x.innerHTML = "Geolocation is not supported by this browser.";
    }
}
function showPosition(position) {
    const name=<iframe src='http://maps.google.com/maps?q=';
    const name2=&z=16&output=embed' height='450' width='600'>';
    x.innerHTML= name+position.coords.latitude+','+position.coords.longitude+name2;
}

</script>

</body>
</html>

```

Login.html

```
<html>
    <!-- TITLE & META--!>
    <head>

        </head>
        <style>

/* Full-width input fields */
input[type=text], input[type=password] {
    width: 50%;
    padding: 20px 30px;
    margin: 8px 0;
    display: inline-block;
    border: 1px solid #ccc;
    box-sizing: border-box;
}

/* Set a style for all buttons */
button {
    background-color: #ffdead;
    color: #c71585;
    padding: 14px 20px;
    margin: 8px 0;
    border: none;
    cursor: pointer;
    width: 20%;
}

button:hover {
    opacity: 0.8;
}

/* Extra styles for the cancel button */
.cancelbtn {
    width: auto;
    padding: 6px 12px;
    background-color: #ffdead;
}

/* Center the image and position the close button */
.imgcontainer {
    text-align: center;
    margin: 6px 0 8px 0;
    position: relative;
}

img.cake{
    width: 40%;
    border-radius: 50%;
}
```

```

.container {
  padding: 20px;
  text-align: center;
}

span.psw {
  float: right;
  padding-top: 30px;
}

/* The Modal (background) */
.modal {
  display: none; /* Hidden by default */
  position: fixed; /* Stay in place */
  z-index: 1; /* Sit on top */
  left: 300px;
  top: 150px;
  width: 60%;
  height: 60%;
  overflow: auto; /* Enable scroll if needed */
  background-color: rgba(0,0,0,0.4); /* Black w/ opacity */
  padding: 60px;
}

/* Modal Content/Box */
.modal-content {
  background-color: #fefefe;
  margin: 5% auto 15% auto; /* 5% from the top, 15% from the bottom and centered */
  border: 1px solid #888;
  width: 80%; /* Could be more or less, depending on screen size */
}

/* The Close Button (x) */
.close {
  position: absolute;
  right: 25px;
  top: 0;
  color: #000;
  font-size: 35px;
  font-weight: bold;
}

.close:hover,
.close:focus {
  color: red;
  cursor: pointer;
}

</style>

```

```

<body>

    <form class="modal-content animate" action="/action_page.php" method="post">
        <div class="imgcontainer">
            <span onclick="window.location.href='file:///C:/Users/MANISHA/Desktop/sem%206/web%20programming/u1/cake%20ordering%20system/food%20order%20management.htm';" class="close" title="Close Modal">&times;</span>
            
        </div>
        <div class="container">
            <label for="uname"><b>Username</b></label>
            <input type="text" placeholder="Enter Username" name="uname" required>

            <br><label for="psw"><b>Password</b></label>
            <input type="password" placeholder="Enter Password" name="psw" id="psw" name="psw" pattern="(?=.*\d)(?=.*[a-z])(?=.*[A-Z]).{8,}" title="Must contain at least one number and one uppercase and lowercase letter, and at least 8 or more characters" required><br>
            <br><button type="submit">Login</button>

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

        <div class="container" style="background-color:#f1f1f1">
            <br><button type="button" onclick="document.getElementById('id01').style.display='none'" class="cancelbtn">Cancel</button>
            <span class="psw">Forgot <a href="#">password?</a></span><br>
        </div>
    </form>
</div>

<script>
// Get the modal
var modal = document.getElementById('id01');

// When the user clicks anywhere outside of the modal, close it
window.onclick = function(event) {
    if (event.target == modal) {
        modal.style.display = "none";
    }
}

var myInput = document.getElementById("psw");
var letter = document.getElementById("letter");
var capital = document.getElementById("capital");
var number = document.getElementById("number");
var length = document.getElementById("length");

```

```

// When the user clicks on the password field, show the message box
myInput.onfocus = function() {
  document.getElementById("message").style.display = "block";
}

// When the user clicks outside of the password field, hide the message box
myInput.onblur = function() {
  document.getElementById("message").style.display = "none";
}

// When the user starts to type something inside the password field
myInput.onkeyup = function() {
  // Validate lowercase letters
  var lowerCaseLetters = /[a-z]/g;
  if(myInput.value.match(lowerCaseLetters)) {
    letter.classList.remove("invalid");
    letter.classList.add("valid");
  } else {
    letter.classList.remove("valid");
    letter.classList.add("invalid");
  }

  // Validate capital letters
  var upperCaseLetters = /[A-Z]/g;
  if(myInput.value.match(upperCaseLetters)) {
    capital.classList.remove("invalid");
    capital.classList.add("valid");
  } else {
    capital.classList.remove("valid");
    capital.classList.add("invalid");
  }

  // Validate numbers
  var numbers = /[0-9]/g;
  if(myInput.value.match(numbers)) {
    number.classList.remove("invalid");
    number.classList.add("valid");
  } else {
    number.classList.remove("valid");
    number.classList.add("invalid");
  }

  // Validate length
  if(myInput.value.length >= 8) {
    length.classList.remove("invalid");
    length.classList.add("valid");
  } else {
    length.classList.remove("valid");
    length.classList.add("invalid");
  }
}

```

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

Reviews.html

```
<html>
    <!-- TITLE & META--!>
    <head>
        <meta name="description" content="Review">
        <meta name="keywords" content="

        Cake Near Me Birthday Cake Bakeries near me Cake Bakeries online Top Cake Bakery
        Wedding Cake Bakers Famous Bakery Custom Cakes Near My Bakery Wedding Cakes Cup
        Cakes Baker Cake Bakery Shop Bakery And Cake Shop">
        <title>Review</title>

    </head>
    <!-- INTERNAL CSS --!>

    <body>

        <h3>REVIEWS</h3>
        <p style ="color:#191970; font-size:12px; font-style:italic; text-align="left";">HERE ARE WHAT SOME
        OF OUR AWESOME CLIENTS HAVE SAID ABOUT US!</p>
        <!-- CLASS SELECTOR, INLINE STRUCTURE ABOVE-- !>

        <!-- BOX MODEL , INTERNAL STRUCTURE (BODY AND P), ID SELECTOR --!>
        <p> "Each time I throw a party Palettenknife is my go-to. <mark>Manisha is beyond talented at what
        she does</mark>. She has created some of the loveliest dessert spreads I have ever seen. She will go
        through every detail with you until it's just right. Everything is beautiful and delicious."
        — Jacqui<br><br></p>

        <p id="para2"> "Thank you sooooo much for the most <mark>delicious cupcakes!!!!</mark> They
        not only tasted out of this world fabulous, they looked wonderful with the custom, hand made
        butterflies and dragonflies decorations!!! When our families saw the cupcakes, they jokingly asked if
        we can have dessert first because they remember all the previous wonderful desserts that you made
        for our birthday dinners!! We enjoyed every bite!!!"
        — Winnie<br><br></p>

        <p> "As soon as I brought out the cake to place on the table, my daughter ran right over. She was
        speechless and it really took her breath away. I will never forget her facial expression, I could barely
        even make out "Is this my cake?" My guests loved it as well, they even made a line to take pictures.
        <mark>The cake was just so adorable </mark>and too pretty to cut. I really appreciate the time and
        effort and going out of your way to incorporate all the designs that my daughter wanted, from
        having Ariel on top, to not forgetting Flounder and Sebastian :) THANKS SO MUCH BGU! :)"
        — Maria<br></p>

    </body>
</html>
```

Styles.css

```
.header {  
    background-color:#ff7f50;  
    padding: 20px;  
    text-align: center;  
}  
.topnav {  
    overflow: hidden;  
    background-color: #ffdead;  
    text-align: center;  
}  
  
.topnav a {  
    float: left;  
    color: #c71585;  
    text-align: center;  
    padding: 14px 16px;  
    text-decoration: none;  
    font-size: 17px;  
}  
  
a:hover {  
    background-color:#eee8aa;  
    color: black;  
}  
  
div.sticky {  
    position: sticky;  
    top: 0;  
    padding: 5px;  
}  
  
div.foot{  
    width: 300px;  
    height: 240px;  
    border: 7px solid #FF0000;  
    padding: 20px;  
    margin: 10px;  
}  
  
.container {  
    position: relative;  
    text-align: center;  
    color: black;  
}  
  
.top-left {  
    position: absolute;  
    top: 86px;  
    left: 46px;  
}  
  
#bordering {  
    border: 25px solid transparent;  
    padding: 20px;  
    border-image: url(border.jpg) 60 round;
```

```

        }
        .style1{
        text-shadow:0 0 12px #B00000 ;
        background: #ffdead;
        color: #c71585;
        }
    
```

OUTPUT

Online Cake Ordering System

localhost/fom.html



Welcome to Palettenknife Cakes & Bakes

Use code PNK10 to avail 10%off on all orders

About Pastries Cupcakes Icecream cakes Review Login Location

Our Veg Restaurant

About

A pioneer in the online cake shop model with associated home delivery services in Chennai, we cater for all occasions and events like weddings, birthday parties, engagement parties, and anniversaries. Palettenknife ,Chennai brings a rich culinary experience to the subtle art of baking and cake making. Using traditional techniques and the best ingredients, we offer cakes in a delicious variety of flavours. Exceptional customer service complements our baking excellence and we go the extra mile in undertaking 'midnight cake delivery' and 'doorstep delivery' for your special occasion.

Pastries

localhost/fom.html#/review

Online Cake Ordering System

localhost/fom.html#/review

Use code PNK10 to avail 10%off on all orders

Our Veg Restaurant

REVIEWS

HERE ARE WHAT SOME OF OUR AWESOME CLIENTS HAVE SAID ABOUT US!

"Each time I throw a party Palettenknife is my go-to. **Manisha** is beyond talented at what she does. She has created some of the loveliest dessert spreads I have ever seen. She will go through every detail with you until it's just right. Everything is beautiful and delicious." — Jacqui

"Thank you sooooo much for the most **delicious cupcakes!!!!** They not only tasted out of this world fabulous, they looked wonderful with the custom, hand made butterflies and dragonflies decorations!!! When our families saw the cupcakes, they jokingly asked if we can have dessert first because they remember all the previous wonderful desserts that you made for our birthday dinners!! We enjoyed every bite!!! — Winnie

"As soon as I brought out the cake to place on the table, my daughter ran right over. She was speechless and it really took her breath away. I will never forget her facial expression, I could barely even make out "Is this my cake?" My guests loved it as well, they even made a line to take pictures. **The cake was just so adorable** and too pretty to cut. I really appreciate the time and effort and going out of your way to incorporate all the designs that my daughter wanted, from having Ariel on top, to not forgetting Flounder and Sebastian :) THANKS SO MUCH BGU! :)" — Maria

Online Cake Ordering System

localhost/fom.html#/login

Use code PNK10 to avail 10%off on all orders

About Pastries Cupcakes Icecream cakes Review Login Location

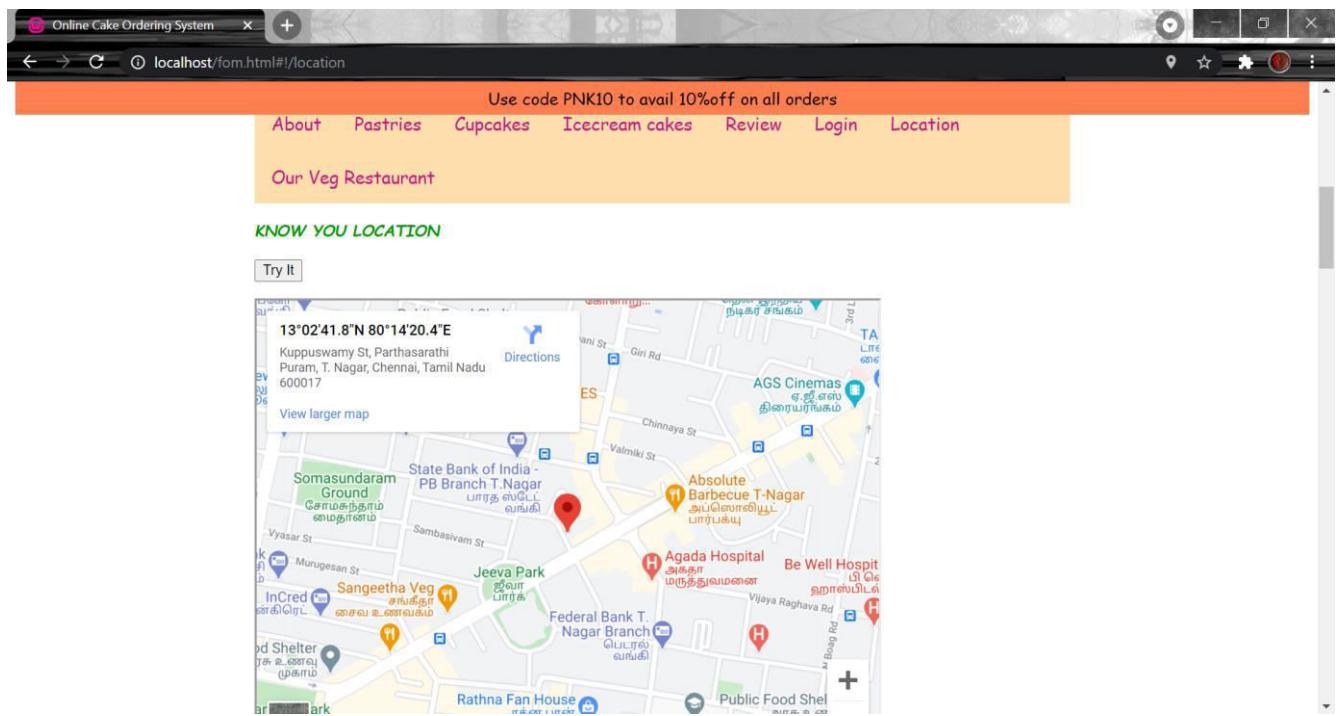
Our Veg Restaurant



Username

Password

Remember me



RESULT-

The above code was successfully executed to implement angular JS program for navigation menu.

Exp-5

Date- 23/03/21

Angular program to switch between layouts & Animations

AIM

- 5a. Angular program to switch between layouts
- 5b. Angular JS Animations

PROCEDURE

- Use '**ng-switch**' directive to switch between layout (i.e) categories of cakes available -
`<div ng-switch="myVar">`
- Child elements with the '**ng-switch-when**' directive will be displayed if it gets a match, otherwise the element, and its children will be removed.
`<div id="bordering" ng-switch-when="ICE CREAM CAKES">`
`<div id= "bordering" ng-switch-when="PASTRIES">`
`<div id="bordering" ng-switch-when="CUPCAKES">`
- Use **ng-switch-default** directive, to show a section if none of the other sections get a match.
`<div ng-switch-default>`
- To include Angular Js animation we need to add **animation library** -
`<script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.6.9/angular-animate.js"></script>`
- Define the Animation using `<div ng-app="ngAnimate">`
- Using '**ng-hide**' and '**ng-show**' directive we add or remove classes value

CODE

5a) Angular program to switch between layouts

Switch.html

```

<!DOCTYPE html>
<html>
<script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.6.9/angular.min.js"></script>
<head>
<link rel="stylesheet" href="styles.css">
</head>
<body ng-app="">
<h1 id="bordering" class="style1" align="center">Welcome to Palettenknife Cakes & Bakes
</h1></div>
<br><br>

<table width="800" border="0" align="center" cellpadding="5">
<tr>
<a id="About"><td align= "center" colspan="10" style="background-color:#9FE2BF"><b>About</b></td></a>
</tr>

```

```

<tr>
    <!-- PARAGRAPH--!>
    <td colspan="15">
        <article>
            <p style ="color:#c71585; font-size:22px; font-style:italic; text-align="left";">A <strong>pioneer in the online cake </strong>shop model with associated home delivery services in Chennai, we cater for all occasions and events like weddings, birthday parties, engagement parties, and anniversaries. <br>Palettenknife ,Chennai brings a<strong> rich culinary experience </strong>to the subtle art of baking and cake making. Using traditional techniques and the best ingredients, we offer cakes in a delicious variety of flavours.</br><strong>Exceptional customer service </strong>complements our baking excellence and we go the extra mile in undertaking 'midnight cake delivery' and 'doorstep delivery' for your special occasion.</p></article></td>
    </tr>
</table>
<div class="topnav">
    CHOOSE YOUR CATEGORY OF CAKES:
    <select ng-model="myVar">
        <option value="ICE CREAM CAKES">ICE CREAM CAKES
        <option value="PASTRIES">PASTRIES
        <option value="CUPCAKES">CUPCAKES
    </select>

    <hr>
    <div ng-switch="myVar">
        <div id="bordering" ng-switch-when="ICE CREAM CAKES">
            <table width="800" border="0" align="center" cellpadding="5">
                <tr>
                    <th align="left">Cakes</th>
                    <th align="left">Rate/Kg </th>
                    <th align="left">Rate/ 1/2 Kg</th>
                </tr>
                <ul>
                    <tr>
                        <td><li><strong>Black Forest Cake</strong></li></td>
                        <td>1800</td>
                        <td>900</td>
                    </tr>
                    <tr>
                        <td><li><strong>Red Velvet Cake</strong></li></td>
                        <td>2000</td>
                        <td>1000</td>
                    </tr>
                    <tr>
                        <td><li><strong>Swiss Choco symphony</strong></li></td>
                        <td>1600</td>
                    </tr>
                </ul>
            </table>
        </div>
    </div>

```

```

                <td>800</td>
            </tr>
            <tr>
                <td><li><strong>Mango Kingdom</strong></li></td>
                <td>2200</td>
                <td>1100</td>
            </tr>
            <tr>
                <td><li><strong>Rich Blackcurrent</strong></li></td>
                <td>1800</td>
                <td>900</td>
            </tr>
        </ul>
        </tr>
    </table>
</div>
<div id= "bordering" ng-switch-when="PASTRIES">
    <table width="800" border="0" align="center" cellpadding="5">
        <tr>
            <th align="left">Cakes</th>
            <th align="left">Rate/Kg </th>
            <th align="left">Rate/ 1/2 Kg</th>
        </tr>
        <ul>
        <tr>
            <td><li><strong>Truffle Cake</strong></li></td>
            <td>1000</td>
            <td>500</td>
        </tr>
        <tr>
            <td><li><strong>Pineapple pastry</strong></li></td>
            <td>800</td>
            <td>400</td>
        </tr>
        <tr>
            <td><li><strong>Ebony and Ivory</strong></li></td>
            <td>1200</td>
            <td>600</td>
        </tr>
        <tr>
            <td><li><strong>butterscotch cake</strong></li></td>
            <td>800</td>
            <td>400</td>
        </tr>
    </table>
</div>

```

```

        </tr>
        <tr>
            <td><li><strong>Chocolate Bliss</strong></li></td>
            <td>800</td>
            <td>400</td>
        </tr>
        </ul>
        </tr>
        </table>
    </div>
    <div id="bordering" ng-switch-when="CUPCAKES">
        <table width="800" border="0" align="center" cellpadding="5">
            <tr>
                <th align="left">Cakes</th>
                <th align="left">Rate/pc </th>
            </tr>
            <tr>
                <td>
                    <ol type="1" >
                        <li> <pre><strong>Mocha</strong>           100 </pre></li>
                        <li> <pre><strong>Tiramisu</strong>           150 </pre></li>
                        <li> <pre><strong>cookie n cream</strong>   80 </pre></li>
                    </ol>
                </td>
            </tr>
        </table>
    </div>
    <div ng-switch-default>
        <h1></h1>
        <p>Select topic from the dropdown, to switch the content of this DIV.</p>
    </div>
</div>
</div>

</body>
</html>

```

Styles.css

```
.header {  
    background-color:#ff7f50;  
    padding: 20px;  
    text-align: center;  
}  
.topnav {  
    overflow: hidden;  
    background-color: #ffdead;  
    text-align: center;  
  
}  
.topnav a {  
    float: left;  
    color: #c71585;  
    text-align: center;  
    padding: 14px 16px;  
    text-decoration: none;  
    font-size: 17px;  
}  
a:hover {  
    background-color:#eee8aa;  
    color: black;  
}  
div.sticky {  
    position: sticky;  
    top: 0;  
    padding: 5px;  
}  
div.foot{  
    width: 300px;  
    height: 240px;  
    border: 7px solid #FF0000;  
    padding: 20px;  
    margin: 10px;  
}  
.container {  
    position: relative;  
    text-align: center;  
    color: black;  
}  
.top-left {  
    position: absolute;  
    top: 86px;  
    left: 46px;  
}  
#bordering {  
    border: 25px solid transparent;  
    padding: 20px;  
    border-image: url(border.jpg) 60 round;  
}
```

```

.style1{
text-shadow:0 0 12px #B00000 ;
background: #ffdead;
color: #c71585;
}

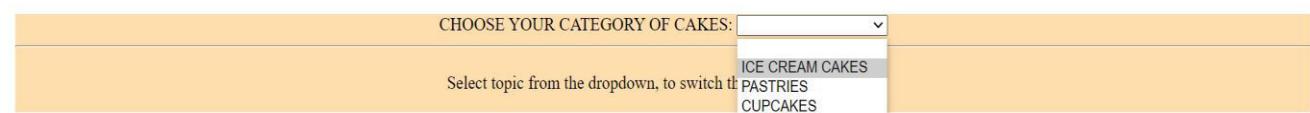
```

OUTPUT



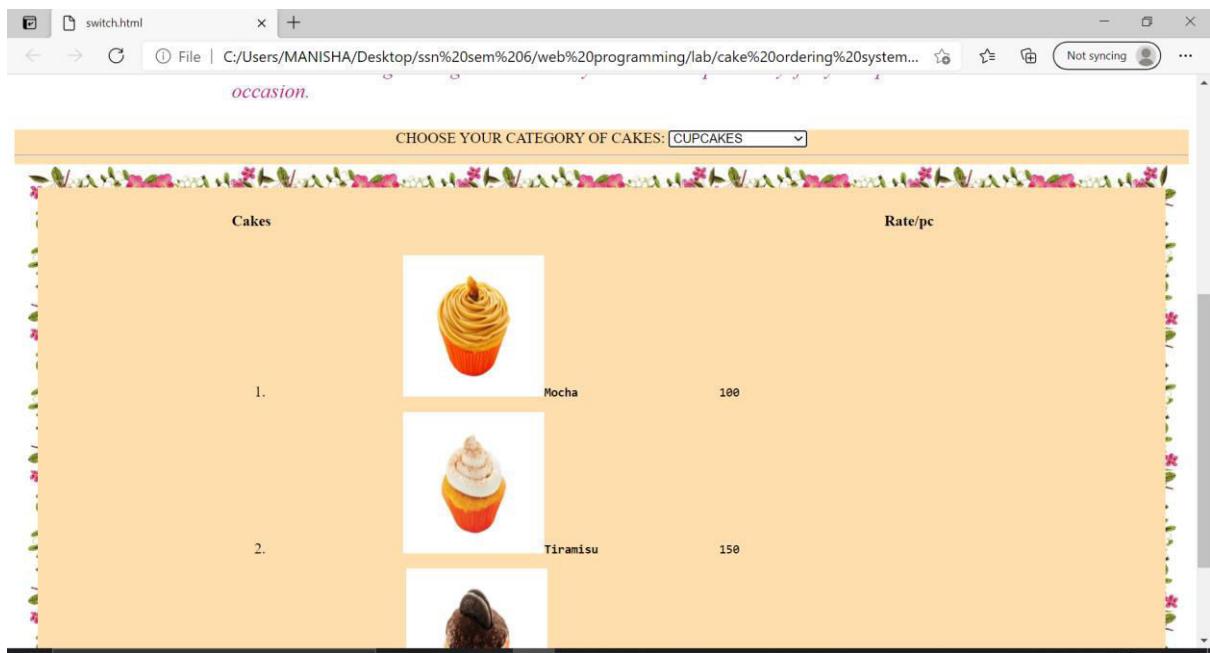
About

A pioneer in the online cake shop model with associated home delivery services in Chennai, we cater for all occasions and events like weddings, birthday parties, engagement parties, and anniversaries.
Palettenknife ,Chennai brings a rich culinary experience to the subtle art of baking and cake making. Using traditional techniques and the best ingredients, we offer cakes in a delicious variety of flavours.
Exceptional customer service complements our baking excellence and we go the extra mile in undertaking 'midnight cake delivery' and 'doorstep delivery' for your special occasion.



Select topic from the dropdown, to switch to occasion.

CHOOSE YOUR CATEGORY OF CAKES: ICE CREAM CAKES	
Select topic from the dropdown, to switch to occasion.	
Cakes	Rate/Kg Rate/ 1/2 Kg
	1800 900
	2000 1000
	1600 800



5b) Angular JS Animations

Filters application.html

```
<!DOCTYPE html>
<html>
<head>
<link rel="stylesheet" href="styles.css">
</head>
<script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.6.9/angular.min.js"></script>
<body>

<table width="800" border="0" align="center" cellpadding="5">

    <tr>

        <h1 id="bordering" class="style1" align="center">Welcome to Palettenknife Cakes &
Bakes </h1></div>
    </tr>

<div ng-app="myApp" ng-controller="namesCtrl" ng-init="overall=0">

<h2 class="header">Search a cake you wanna buy-
<input type="text" ng-model="test"></h2>

<ul id="bordering" align="center" class="style1">
    <h1>Hide PASTRIES <input type="checkbox" ng-model="myCheck1"></h1>
    <div ng-hide="myCheck1">
    <h1 align="center"><b>PASTRIES</b></h1>
    <li ng-repeat="x in names | filter:test">
        
        {{ x.name }}
    </li>
</ul>
</div>
```

```

<input type="button" ng-click="AddMe1(x)" value="1 Kg">
<input type="button" ng-click="AddMe2(x)" value="1/2 Kg">
    <p>total- {{x.total}}</p>
</li>
</div>
</ul>

<ul id="bordering" align="center" class="style1">
    <h1>Hide CUPCAKES <input type="checkbox" ng-model="myCheck2"></h1>
    <div ng-hide="myCheck2">
        <h1 align= "center"><b>CUPCAKES</b></h1>
        <li ng-repeat="x in names1 | filter:test">
            
            {{ x.name }}
            <input type="button" ng-click="AddMe3(x)" value="ADD To CART">
            <p>total- {{x.total}}</p>
        </li>
    </div>
</ul>

<ul id="bordering" align="center" class="style1">
    <h1>Hide ICE CREAM CAKES <input type="checkbox" ng-model="myCheck3"></h1>
    <div ng-hide="myCheck3">
        <h1 align= "center"><b>ICE CREAM CAKES</b></h1>
        <li ng-repeat="x in names2 | filter:test">
            
            {{ x.name }}
            <input type="button" ng-click="AddMe1(x)" value="1 Kg">
            <input type="button" ng-click="AddMe2(x)" value="1/2 Kg">
            <p>total- {{x.total}}</p>
        </li>
    </div>
</ul>

<ul id="bordering" align="center" class="style1">
    <li>Total amount to be paid - {{overall}}</li>
    <li><a href="file:///C:/Users/MANISHA/Desktop/ssn%20sem%206/web%20programming/lab/cake%20ordering%20system/ex3/master%20card.html">Proceed to Pay</a>
    </li>
</ul>

<a href = "mailto:gminsha2000@gmail.com?subject = Feedback&body = 1233">Send Email</a>
</div>
<script>
angular.module('myApp', []).controller('namesCtrl', function($scope) {
    $scope.names = [
        {name:'Truffle Cake',cost1:1000,cost2:500,total:0,image:'truffle.jpg' },
        {name:'Pineapple pastry',cost1:800,cost2:400,total:0,image:'pp.jpg' },
        {name:'Ebony and Ivory',cost1:1200,cost2:600,total:0,image:'e&i.jpg' },
        {name:'Chocolate Bliss',cost1:800,cost2:400,total:0,image:'cb.jpg' },
        {name:'Butterscotch cake',cost1:800,cost2:400,total:0,image:'butterscotch.jpg' },

```

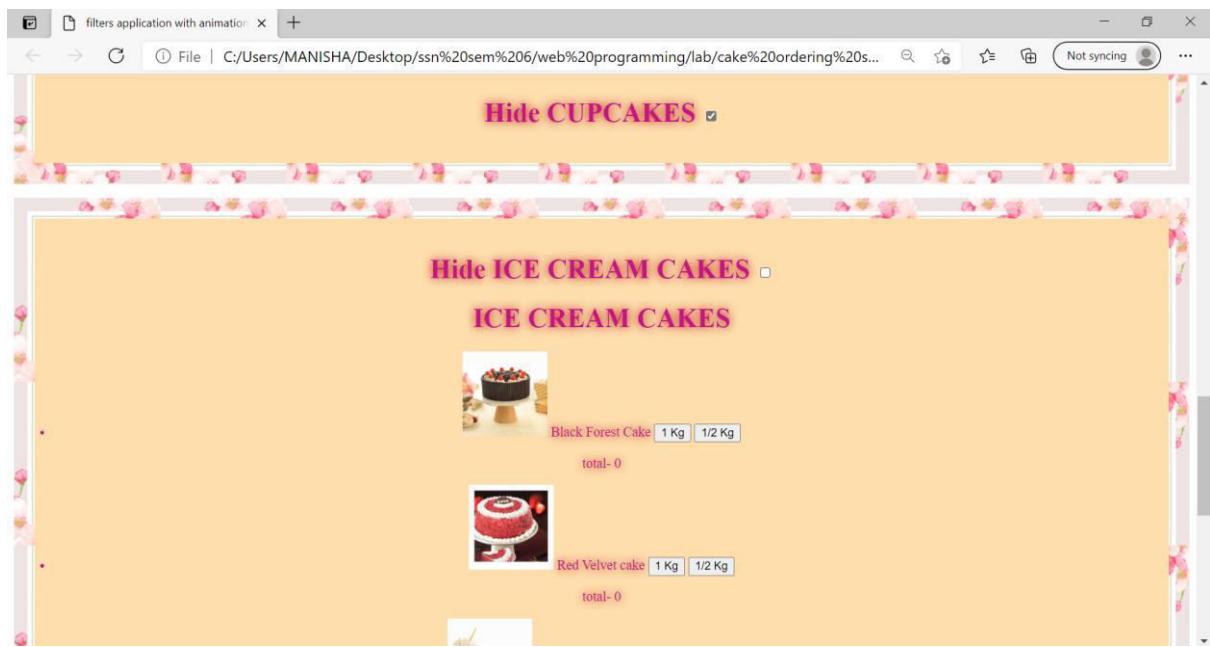
```

];
$scope.names1= [
{name:'Mocha cupcake',cost1:100,total:0,image:'mocha.jpg' },
{name:'Tiramisu Cupcake',cost1:150,total:0,image:'Tiramisu.jpg' },
{name:'cookie n cream cupcake ',cost1:80,total:0,image:'cnc.jpg' }];
$scope.names2 = [
{name:'Black Forest Cake',cost1:1800,cost2:900,total:0,image:'icc 1.jpg' },
{name:'Red Velvet cake',cost1:2000,cost2:1000,total:0,image:'icc 2.jpg' },
{name:'Swiss Choco symphony',cost1:1600,cost2:800,total:0,image:'icc 3.jpg' },
{name:'Mango Kingdom',cost1:2200,cost2:1100,total:0,image:'icc 4.png' },
{name:'Rich Blackcurrent',cost1:1800,cost2:900,total:0,image:'icc 5.jpg' },
];
$scope.AddMe1 = function(x) {
var tot=x.total;
var c1=x.cost1;
var ot=$scope.overall;
x.total=parseInt(tot)+parseInt(c1);
$scope.overall=parseInt(c1)+parseInt(ot);
}
$scope.AddMe2 = function(x) {
var tot=x.total;
var c2=x.cost2;
var ot=$scope.overall;
x.total=parseInt(tot)+parseInt(c2);
$scope.overall=parseInt(c2)+parseInt(ot);
}
$scope.AddMe3 = function(x) {
var tot=x.total;
var c1=x.cost1;
var ot=$scope.overall;
x.total=parseInt(tot)+parseInt(c1);
$scope.overall=parseInt(c1)+parseInt(ot);
}
});
</script>
</body>
</html>

```

OUTPUT





RESULT-

The above code was successfully executed to switch between layout using angular JS and implement Angular JS animation .

Exp-6

Date- 30/03/2021

Angular Program to create a form with real time updates

AIM-

Write an Angular program to create form with real-time updates.

PROCEDURE

- First we **create a database & table** ccdetails using mysql .
 - 1.create database mydb;
 2. use mydb;
 3. create table ccdetails(name varchar(40), Card number varchar(30),CVV int(3));
- Next , we create a **php file** in the ‘www’ folder inside wamp64 folder
- **Connect** the php file with the database using - **mysqli_connect()** specifying out system host name, database user id and password correctly - \$con =mysqli_connect('127.0.0.1', 'root', 'db_con','mydb');
- Using **mysqli_query(\$con,\$sql)** we create the database
- **Insert** into database using mysqli_query(\$conn, \$sql)
Where, \$sql = "**INSERT INTO creditcard** (cname,cno,ccvv) VALUES ('\$text3','\$text1', '\$text2')";
- **Display** a record using \$result = \$con->query("SELECT * FROM creditcard");
- **Update** a record using - \$con->query(\$sql)
\$sql = "**UPDATE creditcard** SET cvv='\$text5' WHERE cname='\$text6'" ;
- **Delete** a record using mysqli_query(\$con,\$sql) where \$sql = "**delete from creditcard** where cvv=\$ccvv";
- We **connect** the **php** file to our main **html** file using - **<form ng-app="" name="frmccdetail" method="post" action="http://localhost/ccdetails.php">**

CODE

Mainpage.html

```

<!DOCTYPE html>
<html>
<head>
<link rel="stylesheet" href="styles.css">
</head>
<script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.6.9/angular.min.js"></script>
<body>

<table width="800" border="0" align="center" cellpadding="5">

<tr>

    <h1 id="bordering" class="style1" align="center">Welcome to Palettenknife Cakes &
Bakes </h1></div>
</tr>

```

```

<div ng-app="myApp" ng-controller="namesCtrl" ng-init="overall=0">

<h2 class="header">Search a cake you wanna buy-
<input type="text" ng-model="test"></h2>

<ul id="bordering" align="center" class="style1">
  <h1>Hide PASTRIES <input type="checkbox" ng-model="myCheck1"></h1>
  <div ng-hide="myCheck1">
    <h1 align="center"><b>PASTRIES</b></h1>
    <li ng-repeat="x in names | filter:test">
      
      {{ x.name }}
      <input type="button" ng-click="AddMe1(x)" value="1 Kg">
      <input type="button" ng-click="AddMe2(x)" value="1/2 Kg">
      <p>total- {{x.total}}</p>
    </li>
  </div>
</ul>

<ul id="bordering" align="center" class="style1">
  <h1>Hide CUPCAKES <input type="checkbox" ng-model="myCheck2"></h1>
  <div ng-hide="myCheck2">
    <h1 align="center"><b>CUPCAKES</b></h1>
    <li ng-repeat="x in names1 | filter:test">
      
      {{ x.name }}
      <input type="button" ng-click="AddMe3(x)" value="ADD To CART">
      <p>total- {{x.total}}</p>
    </li>
  </div>
</ul>

<ul id="bordering" align="center" class="style1">
  <h1>Hide ICE CREAM CAKES <input type="checkbox" ng-model="myCheck3"></h1>
  <div ng-hide="myCheck3">
    <h1 align="center"><b>ICE CREAM CAKES</b></h1>
    <li ng-repeat="x in names2 | filter:test">
      
      {{ x.name }}
      <input type="button" ng-click="AddMe1(x)" value="1 Kg">
      <input type="button" ng-click="AddMe2(x)" value="1/2 Kg">
      <p>total- {{x.total}}</p>
    </li>
  </div>
</ul>

<ul id="bordering" align="center" class="style1">
  <li>Total amount to be paid - {{overall}}</li>

```

```

<li><a href="file:///C:/Users/MANISHA/Desktop/ssn%20sem%206/web%20programming/lab/cake%20ordering%20system/ex3/master%20card.html">Proceed to Pay</a>
</ul>

<a href = "mailto:gminsha2000@gmail.com?subject = Feedback&body = 1233">Send Email</a>
</div>
<script>
angular.module('myApp', []).controller('namesCtrl', function($scope) {
  $scope.names = [
    {name:'Truffle Cake',cost1:1000,cost2:500,total:0,image:'truffle.jpg' },
    {name:'Pineapple pastry',cost1:800,cost2:400,total:0,image:'pp.jpg' },
    {name:'Ebony and Ivory',cost1:1200,cost2:600,total:0,image:'e&i.jpg' },
    {name:'Chocolate Bliss',cost1:800,cost2:400,total:0,image:'cb.jpg' },
    {name:'Butterscotch cake',cost1:800,cost2:400,total:0,image:'butterscotch.jpg' },
  ];
  $scope.names1= [
    {name:'Mocha cupcake',cost1:100,total:0,image:'mocha.jpg' },
    {name:'Tiramisu Cupcake',cost1:150,total:0,image:'Tiramisu.jpg' },
    {name:'cookie n cream cupcake ',cost1:80,total:0,image:'cnc.jpg' }];
  $scope.names2 = [
    {name:'Black Forest Cake',cost1:1800,cost2:900,total:0,image:'icc 1.jpg' },
    {name:'Red Velvet cake',cost1:2000,cost2:1000,total:0,image:'icc 2.jpg' },
    {name:'Swiss Choco symphony',cost1:1600,cost2:800,total:0,image:'icc 3.jpg' },
    {name:'Mango Kingdom',cost1:2200,cost2:1100,total:0,image:'icc 4.png' },
    {name:'Rich Blackcurrent',cost1:1800,cost2:900,total:0,image:'icc 5.jpg' },
  ];
  $scope.AddMe1 = function(x) {
    var tot=x.total;
    var c1=x.cost1;
    var ot=$scope.overall;
    x.total=parseInt(tot)+parseInt(c1);
    $scope.overall=parseInt(c1)+parseInt(ot);
  }
  $scope.AddMe2 = function(x) {
    var tot=x.total;
    var c2=x.cost2;
    var ot=$scope.overall;
    x.total=parseInt(tot)+parseInt(c2);
    $scope.overall=parseInt(c2)+parseInt(ot);
  }
  $scope.AddMe3 = function(x) {
    var tot=x.total;
    var c1=x.cost1;
    var ot=$scope.overall;
    x.total=parseInt(tot)+parseInt(c1);
    $scope.overall=parseInt(c1)+parseInt(ot);
  }
});
```

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

Card.html

```
<!DOCTYPE html>
<html lang="en">
<head>
<title>credit-card number validation</title>
<link rel='stylesheet' href='form-style.css' type='text/css'>
</head>
<script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.6.9/angular.min.js"></script>
<body onload='document.form1.text1.focus()'>
<form ng-app="" name="frmccdetail" method="post" action="http://localhost/ccdetails.php">
<div class="mail">
<h2>Input Credit Card No.(VISA)</h2>

<!--<form name="form1" action="#">--!>
<ul>
<li><h4>CARD HOLDER NAME</h4>
<input type='text' id='text3' name='text3' ng-model="text3"></li>
</ul>
<ul>
<li>
<h4>CARD NUMBER</h4>



<input type='text' id='text1' name='text1' placeholder="0000000000000000" ng-
model="text1"></li>
</ul>
<h2 id='dom'>CVV</h2>
<ul>
<li><input type='text' id='text2' name='text2' placeholder="XXX" ng-model="text2"></li>
</ul>
<h2>Expiration Date</h2>
<ul>
<select id="expiryMonth">
    <option selected> Month </option>
    <option>01</option>
    <option>02</option>
    <option>03</option>
    <option>04</option>
    <option>05</option>
    <option>06</option>
    <option>07</option>
    <option>08</option>
    <option>09</option>
    <option>10</option>
    <option>11</option>
```

```

        <option>12</option>
    </select>
<select id="expiryYear">
    <option selected>Year</option>
        <option>2018</option>
        <option>2019</option>
        <option>2020</option>
        <option>2021</option>
        <option>2022</option>
        <option>2023</option>
        <option>2024</option>
        <option>2025</option>
        <option>2026</option>
        <option>2027</option>
        <option>2028</option>
        <option>2029</option>
        <option>2030</option>
    </select>
</ul>
<ul>
<p>last modified @ <span id="modify"> </span></p>
<li class="submit"><input type="submit" name="submit" value="Submit" onclick="return myfunction()"/></li>
<h2>Update new cvv</h2>
<h2>Name</h2>
<input type='text' id='text6' name='text6' ng-model="text6"></li>
<h2>CVV</h2>
<li><input type='text' id='text5' name='text5' placeholder="XXX" ng-model="text5"></li>
<li class="submit"><input type="submit" name="submit" value="Update" /></li>
</form>
</div>
<script>
function myfunction()
{
    document.getElementById('modify').innerHTML=document.lastModified;
    var form = document.getElementById('form1');
    var cc= document.getElementById('text1');
    var cvv1= document.getElementById('text2');
    var name1= document.getElementById('text3');
    var expiryMonth = document.getElementById('expiryMonth');
    var expiryYear = document.getElementById('expiryYear');
    var cardno1 = /^4?([0-9]{3})?[-]?([0-9]{4})?[-]?([0-9]{4})?[-]?([0-9]{4})?$/ ;
    var cardno2 = /^(5?([1-5][0-9]{2})?[-]?([0-9]{4})?[-]?([0-9]{4})?[-]?([0-9]{4}))|(2?(22[1-9])?[-]?([0-9]{4})?[-]?([0-9]{4})?[-]?([0-9]{4}))|(2?(3-6)[0-9]{2})?[-]?([0-9]{4})?[-]?([0-9]{4})?[-]?([0-9]{4}))|(22?([3-9][0-9])?[-]?([0-9]{4})?[-]?([0-9]{4})?[-]?([0-9]{4}))|(27?([0-1][0-9])?[-]?([0-9]{4})?[-]?([0-9]{4})?[-]?([0-9]{4}))|((2720)?[-]?([0-9]{4})?[-]?([0-9]{4})?[-]?([0-9]{4})))$/ ;
    var cardno3 = /(^3?((?:0[0-5]| [68][0-9])[0-9])?[-]?([0-9]{4})?[-]?([0-9]{4})?[-]?([0-9]{2}))$/;
    var letters = /^[A-Za-z ]+$/;
    if(name1.value.match(letters));
    else

```

```

{ alert("Enter name with alphabets alone ");
}
if(cc.value=="" || cc.value==null)
{
    alert("Please enter card number");
}
if(cvv1.value=="" || cvv1.value==null)
{
    alert("Please enter CVV");
}
if(name1.value=="" || name1.value==null)
{
    alert("please enter valid Card holder name");
}
if(cc.value.match(cardno1))
{
    var parent = document.getElementById("dom");
    parent.removeChild(parent.childNodes[0]);
    alert("valid visa card number");
}
else if(cc.value.match(cardno2))
{
    var parent = document.getElementById("dom");
    parent.removeChild(parent.childNodes[0]);
    alert("valid master card number");
}
else if(cc.value.match(cardno3))
{
    var parent = document.getElementById("dom");
    parent.removeChild(parent.childNodes[0]);
    alert("valid diner's club card number");
}
else
{
    var para = document.createElement("p");
    var node = document.createTextNode("Invalid card number");
    para.appendChild(node);
    var element = document.getElementById("dom");
    element.insertBefore(para, element.childNodes[0]);
}

var month = expiryMonth.value;
var year = expiryYear.value;
var d = new Date();
if(year<d.getFullYear())
{
    alert("Expired card");
}
else if(month>d.getMonth())
{

```

```

        alert("non-expired card");
    }
    else
    {
        alert("Expired card");
    }

    return false;
}
</script>
</body>
</html>

```

Ccdetails.php

```

<!DOCTYPE html>
<html>
<head>
<style>
table, th, td {
    border: 1px solid black;
}
</style>
</head>
<body>
<?php
$con =mysqli_connect('127.0.0.1', 'root', 'db_con','mydb');

$text3 = $_POST['text3'];
$text1 = $_POST['text1'];
$text2 = $_POST['text2'];
$text5 = $_POST['text5'];
$text6 = $_POST['text6'];
// database insert SQL code
if(empty( $_POST['text5']))
{
$sql = "INSERT INTO creditcard (cname,cno,cvv) VALUES ('$text3','$text1', '$text2')";
// insert in database
$rs = mysqli_query($con, $sql);
if($rs)
{

$result = $con->query("SELECT * FROM creditcard;");
if ($result->num_rows >0) {
    // output data of each row
    echo "<table><br><tr><td> NAME </td><td> CARD NUMBER </td><td>
CVV</td></tr></br>";
    while($row = $result->fetch_assoc()) {
        echo "<br><tr><td> ". $row["cname"]. "</td><td> ". $row["cno"]. "</td><td> ".
$row["cvv"]. "</td></tr></br>";
    }
}
}
}

```

```

        }
        echo "</table>";
    }
else {
    echo "0 results";
}
echo "-- creditcard Records Inserted";
}
}
else
{
$sql = "UPDATE creditcard SET cvv='$text5' WHERE cname='$text6'";

if ($con->query($sql)) {
    echo "Record updated successfully";
    $result = $con->query("SELECT * FROM creditcard;");
    if ($result->num_rows >0) {
        echo "<table><br><tr><td> NAME </td><td> CARD NUMBER </td><td>
CVV</td></tr></br>";
        while($row = $result->fetch_assoc()) {
            echo "<br><tr><td> ". $row["cname"]. "</td><td> ". $row["cno"]. "</td><td> ".
$row["cvv"] .</td></tr></br>";

        }
        echo "</table>";
    }
}
else {
    echo "Error updating record: " . $con->error;
}
}
?>

```

Styles.css

```

.header {
    background-color:#ff7f50;
    padding: 20px;
    text-align: center;
}
.topnav {
    overflow: hidden;
    background-color: #ffdead;
    text-align: center;

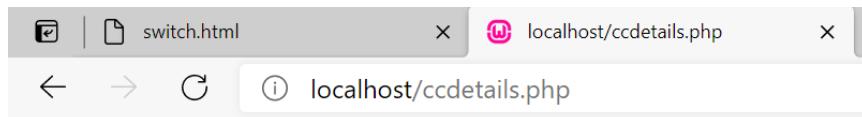
}
.topnav a {
    float: left;
    color: #c71585;
    text-align: center;
    padding: 14px 16px;
}

```

```
        text-decoration: none;
        font-size: 17px;
    }
a:hover {
    background-color:#eee8aa;
    color: black;
}
div.sticky {
    position: sticky;
    top: 0;
    padding: 5px;
}
div.foot{
    width: 300px;
    height: 240px;
    border: 7px solid #FF0000;
    padding: 20px;
    margin: 10px;
}
.container {
    position: relative;
    text-align: center;
    color: black;
}
.top-left {
    position: absolute;
    top: 86px;
    left: 46px;
}
#bordering {
    border: 25px solid transparent;
    padding: 20px;
    border-image: url(border.jpg) 60 round;
}
.style1{
    text-shadow:0 0 12px #B00000 ;
    background: #ffdead;
    color: #c71585;
}
```

OUTPUT

The image shows two overlapping browser windows. The top window displays a shopping cart interface for a cake ordering system. It lists three items: "Swiss Choco symphony" (1 Kg), "Mango Kingdom" (1 Kg), and "Rich Blackcurrent" (1 Kg). The total price for these items is 1800. Below the cart, a message indicates a total amount of 4200 and a "Proceed to Pay" button. The bottom window shows a credit-card number validation form. It includes fields for "CARD HOLDER NAME" (filled with "Derick"), "CARD NUMBER" (showing "4111-1111-1111-1111" with logos for VISA, MasterCard, and American Express), "CVV" (filled with "225"), "Expiration Date" (set to 07/2021), and a "Submit" button. There is also a link to "Update new cvv".



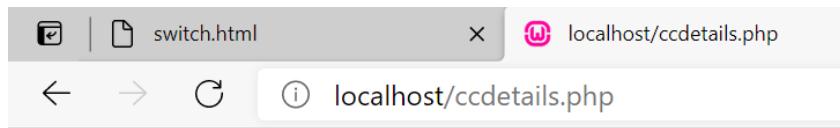
NAME	CARD NUMBER	CVV
Ben	5114-4963-5398-4312	566
Clark	2720-8224-6310-9651	555
Ella	3000-0000-0000-40	552
Derick	4111-1111-1111-1111	225
Manisha	5500-0000-0000-0000	889
ferb	4887-7044-5518-5832	884

-- creditcard Records Inserted- total records = 6

A screenshot of a web browser displaying a form. The form has a light orange background and is titled "CVV". It contains several input fields and buttons:

- A text input field labeled "CVV" containing "XXX".
- A section labeled "Expiration Date" with dropdown menus for "Month" and "Year".
- A small text area labeled "last modified @".
- A "Submit" button.
- A "Update new cvv" button.
- A text input field labeled "Name" containing "Manisha".
- A text input field labeled "CVV" containing "999".
- An "Update" button at the bottom right of the "CVV" input field.

The browser's address bar shows the path "C:/Users/MANISHA/Desktop/ssn%20sem%206/web%20programming/lab/cake%20ordering%20system...".



NAME	CARD NUMBER	CVV
Ben	5114-4963-5398-4312	566
Clark	2720-8224-6310-9651	555
Ella	3000-0000-0000-40	552
Derick	4111-1111-1111-1111	225
Manisha	5500-0000-0000-0000	999
ferb	4887-7044-5518-5832	884

RESULT-

The above code was successfully executed to create a form with real time updating.

Exp-7

Date- 06/04/2021

Video player using Angular.

AIM-

Create a video player using Angular.

PROCEDURE

- Initialise an Angular JS application using 'ng-app' directive - `<body ng-app="myApp" ng-controller="vidctrl">`
- Call controller functions defined within <script> for ever action required on click **using 'ng-click'** - `<button ng-click="playVid()"> <i class="fa fa-play"></i></button>`
- Here, `<i class="fa fa-play">` we **use <i> icon tag** to display video buttons using **Font Awesome** icons (fa) by including `<link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/4.7.0/css/font-awesome.min.css">` in header
- Add the video using `<video>` tag - `<video id="video1" width="420" height="300">`
- `<source src="cake.mp4" type="video/mp4">` `</video>`
- Using **DOM** we extract the video element- `var vid= document.getElementById ("video1");`
- Define every action required using **video control** function like `pause()`, `play()`, `.currentTime`, `.muted`, `.playbackRate` etc..
- Egs- `$scope.playVid = function(){`
`vid.play();`
`}`
`$scope.unmute= function() {`
`vid.muted=false;`
`}`

CODE

Video.html

```
<!DOCTYPE html>
<html>
<head>
<style>
#bordering {
    border: 25px solid transparent;
    padding: 30px;
    border-image: url(border.jpg) 60 round;
}
</style>
<link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/4.7.0/css/font-awesome.min.css">
</head>
<script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.6.9/angular.min.js">

</script>
```

```

<body ng-app="myApp" ng-controller="vidctrl">
<div id="bordering" align="center">
<button ng-click="playVid()" ><i class="fa fa-play"></i></button>
<button ng-click="pauseVid()" ><i class="fa fa-pause"></i></button>
<button ng-click="makeBig()" ><i class="fa fa-expand"></i></button>
<button ng-click="makeSmall()" ><i class="fa fa-compress"></i></button>
<button ng-click="makeNormal()" >Original Size</button>
<button ng-click="skip(10)" ><i class="fa fa-step-forward"></i></button>
<button ng-click="restart()" ><i class="fa fa-reply"></i></button>
<button ng-click="mute()" ><i class="fa fa-volume-off"></i></button>
<button ng-click="unmute()" ><i class="fa fa-volume-up"></i></button>
<button ng-click="speed()" >2x</button>
<button ng-click="speeds()" >3x</button>
<button ng-click="normal()" >1x</button>

<br>
<video id="video1" width="420" height="300">
  <source src="cake.mp4" type="video/mp4">
</video>
</div>

<script>
var app= angular.module('myApp',[]);
app.controller('vidctrl',function($scope){
var vid=document.getElementById("video1");

$scope.playVid = function(){
vid.play();
}

$scope.pauseVid= function() {
  vid.pause();
}

$scope.makeBig = function() {
  vid.width = 560;
  vid.height=400;
}

$scope.makeSmall = function() {
  vid.width = 320;
  vid.height=200;
}

$scope.makeNormal = function() {
  vid.width = 420;
  vid.height=300;
}

$scope.skip = function(value) {
  vid.currentTime += value;
}

```

```

}

$scope.restart= function() {
    vid.currentTime = 0;
}

$scope.mute= function() {
    vid.muted=true;
}

$scope.unmute= function() {
    vid.muted=false;
}

$scope.speed= function() {
    vid.playbackRate= 2;
}
$scope.speeds= function() {
    vid.playbackRate= 3;
}
$scope.normal= function() {
    vid.playbackRate= 1;
}
});

</script>

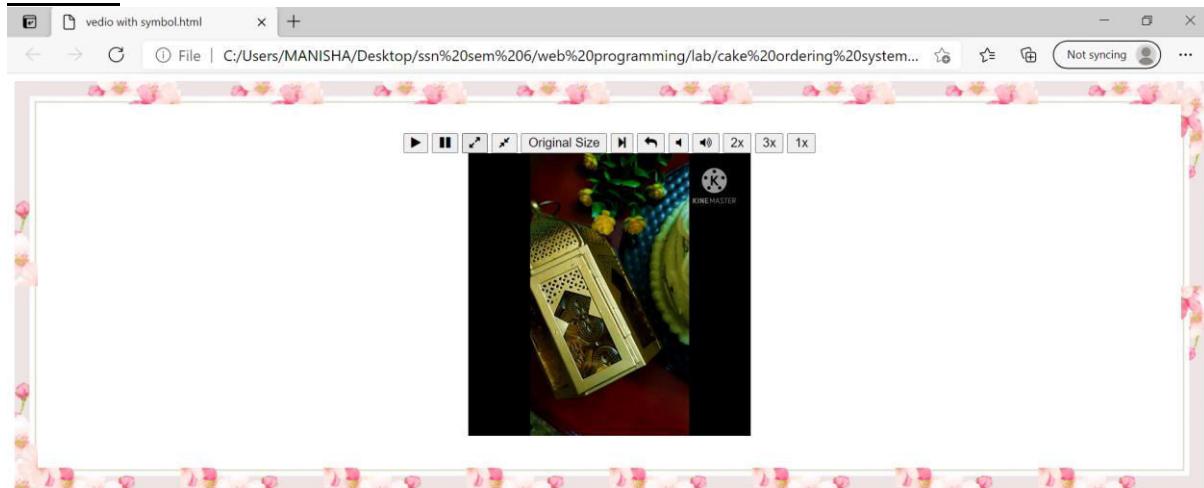
```

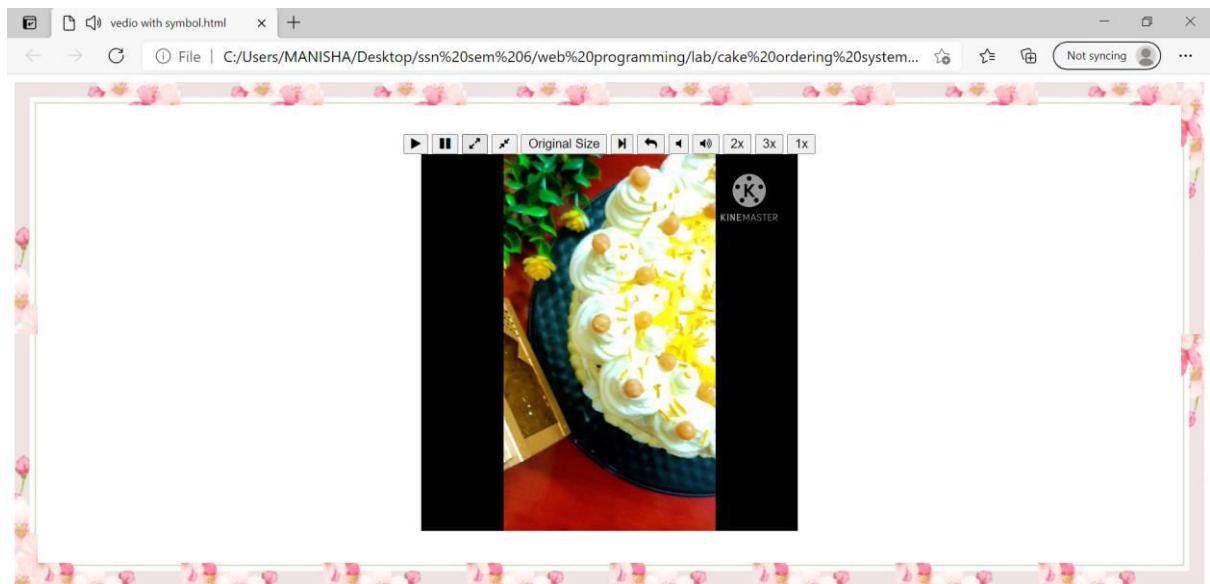
```

</body>
</html>

```

OUTPUT





RESULT-

The above code was successfully executed to implement video player using Angular JS.

Exp-8

Date- 06/04/2021

Editor using Angular.

AIM-

Create an editor using Angular.

PROCEDURE

- Create a drop down list using **<select> and <option>** to display the operations that editor can perform – New, Open, Save , Cut , Copy , Paste etc..
- Using '**ng-click**' we call appropriate functions defines within **<script>** to perform the actions
- For saving the file we use **blob()** Web API that stores the data into the blob
- Convert the blob (text) to URL using **URL.createObjectURL()** method. This method takes a Blob (or Blob-like object) and returns a String that can be used in any place that a URL might be used (such as an HREF attribute).
- Load a file to the editor using var **FileReader()** Web API
- **Use FileReader.onload()** – (This event is triggered each time the reading operation is successfully completed.) to display the file using FileReader.result
- Cut, Copy and Paste using document.execCommand() Web API-
document.execCommand("Copy"); & **navigator.clipboard** which returns the Clipboard object used to read and write the clipboard's contents.
- Exit from the editor using **window.close()**

CODE

Editor.html

```
<html>
<head>
<style>
#bordering {
    border: 25px solid transparent;
    padding: 30px;
    border-image: url(border.jpg) 60 round;
}
</style>
</head>
<script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.6.9/angular.min.js">
</script>
<body ng-app="">
<div id="bordering">
<select ng-model="myVar">
<option value="" disabled selected>FILE</option>
<option value="new">new</option>
<option value="open">open</option>
```

```

<option value="save as">save as</option>
<option value="exit">exit</option>
</select>
<select id="select" onchange="edit()" ng-model="myvar1">
<option value="" disabled selected>EDIT</option>
<option value="cut">cut</option>
<option value="copy">copy</option>
<option value="paste">paste</option>
</select>

<div ng-switch="myVar">

<table>
    <tr><td>Text to Save:</td></tr>
    <tr>
        <td colspan="3">
            <textarea id="inputTextToSave" cols="80" rows="25" ng-
copy="copied=true" ng-paste="paste=true" ng-cut="cut=true" ></textarea>
        </td>
    </tr>
</table>

<div ng-switch-when="new">
    <button><a
href="file:///C:/Users/MANISHA/Desktop/ssn%20sem%206/web%20programming/lab/cake%20ord
ering%20system/ex%207%20&%20ex%208-
%20create%20vedio%20player/editor%20final.html">new</a> </button>
</div>

<div ng-switch-when="save as">
    Filename to Save As:
    <input id="inputFileNameToSaveAs"></input>
    <button onclick="saveTextAsFile()">Save Text to File</button>
</div>
<div ng-switch-when="open">
<table>
    <tr>
        <td>Select a File to Load:</td>
        <td><input type="file" id="fileToLoad"></td>
        <td><button onclick="loadFileAsText()">Load Selected File</button><td>
    </tr>
</table>
</div>
<div ng-switch-when="exit">
    <button class="btn btn-alt a1" onclick = "exitFile()" id = "exitFile">Close
File</button>
</div>
</div>
<div ng-switch="myvar1">

```

```

<p>You have copied: <b>{{copied}}</b></p>
<p>You have pasted in Textbox: <b>{{paste}}</b></p>
<p>You have cut from Textbox: <b>{{cut}}</b></p>

<div ng-switch-when="copy">
    <button class="btn btn-alt a1" onclick = "copytoClipboard()" id =
"copy">Copy</button>
</div>
<div ng-switch-when="paste">
    <button class="btn btn-alt a1" onclick = "pastetoClipboard()" id =
"paste">Paste</button>
</div>
<div ng-switch-when="cut">
    <p><button class="btn btn-alt a1" onclick = "cuttoClipboard()" id =
"cut">Cut</button>
</div>

</div>

<script type="text/javascript">
$scope.cut = false;
$scope.copy = false;
$scope.paste = false;

function saveTextAsFile()
{
    var textToSave = document.getElementById("inputTextToSave").value;
    var textToSaveAsBlob = new Blob([textToSave], {type:"text/plain"});
    var textToSaveAsURL = window.URL.createObjectURL(textToSaveAsBlob);
    var fileNameToSaveAs = document.getElementById("inputFileNameToSaveAs").value;

    var downloadLink = document.createElement("a");
    downloadLink.download = fileNameToSaveAs;
    downloadLink.innerHTML = "Download File";
    downloadLink.href = textToSaveAsURL;
    downloadLink.onclick = destroyClickedElement;
    downloadLink.style.display = "none";
    document.body.appendChild(downloadLink);

    downloadLink.click();
}

function destroyClickedElement(event)
{
    document.body.removeChild(event.target);
}

function loadFileAsText()
{

```

```

var fileToLoad = document.getElementById("fileToLoad").files[0];

var fileReader = new FileReader();
fileReader.onload = function(fileLoadedEvent)
{
    var textFromFileLoaded = fileLoadedEvent.target.result;
    document.getElementById("inputTextToSave").value = textFromFileLoaded;
};
fileReader.readAsText(fileToLoad, "UTF-8");
}

function edit()
{

    var x = document.getElementById("select").value;
    document.getElementById("demo").innerHTML = x + " successful !!";
}

function copytoClipboard(){
    var textArea = document.getElementById("inputTextToSave");
    textArea.select();
    document.execCommand("Copy");
}
function cuttoClipboard(){
    var textArea = document.getElementById("inputTextToSave");
    textArea.select();
    document.execCommand("Cut");
}

function pastetoClipboard(){

    let pasteArea = document.getElementById('inputTextToSave');
    navigator.clipboard.readText()
    .then((text)=>{pasteArea.value+='\n'+text;
})
}

function exitFile(){
    window.close();
}
</script>

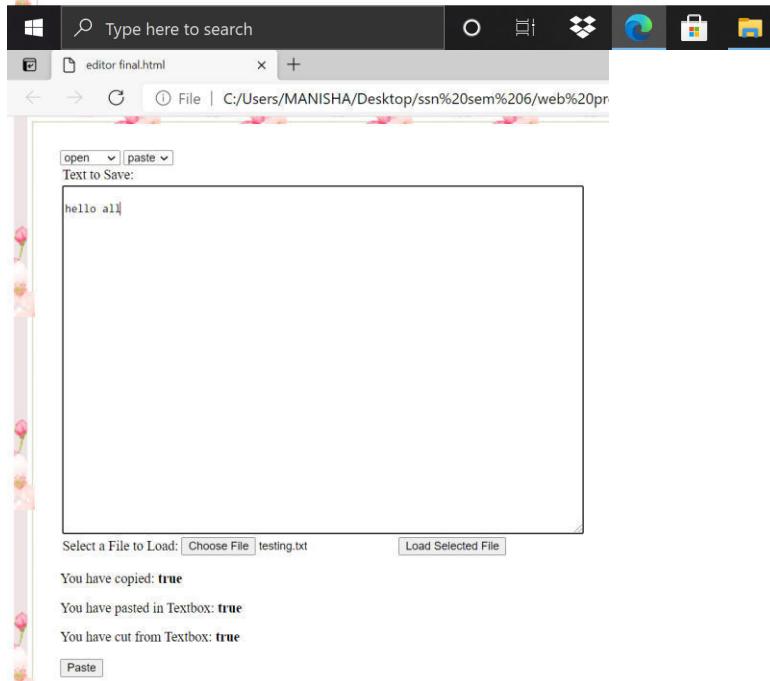
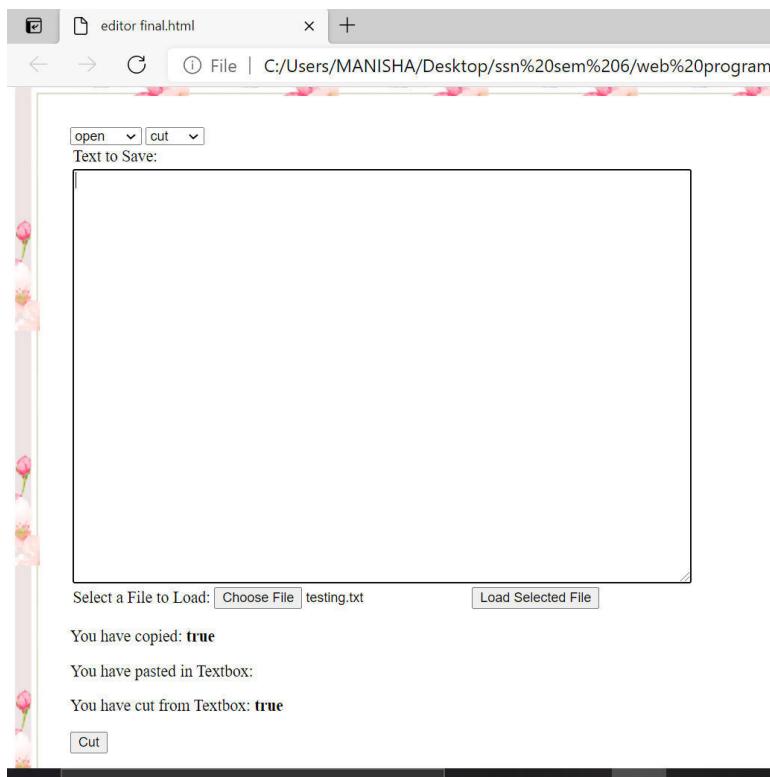
</body>
</html>

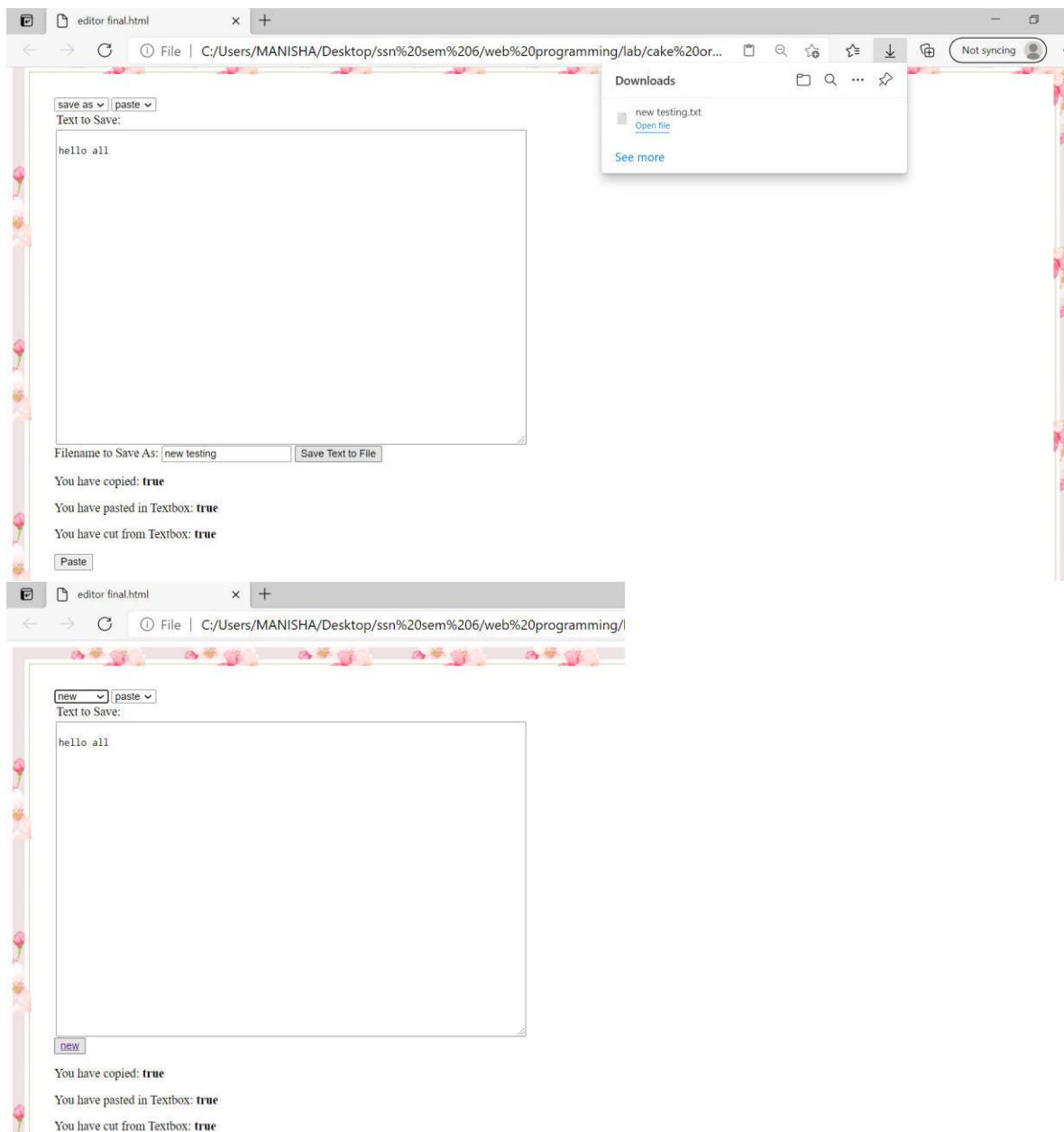
```

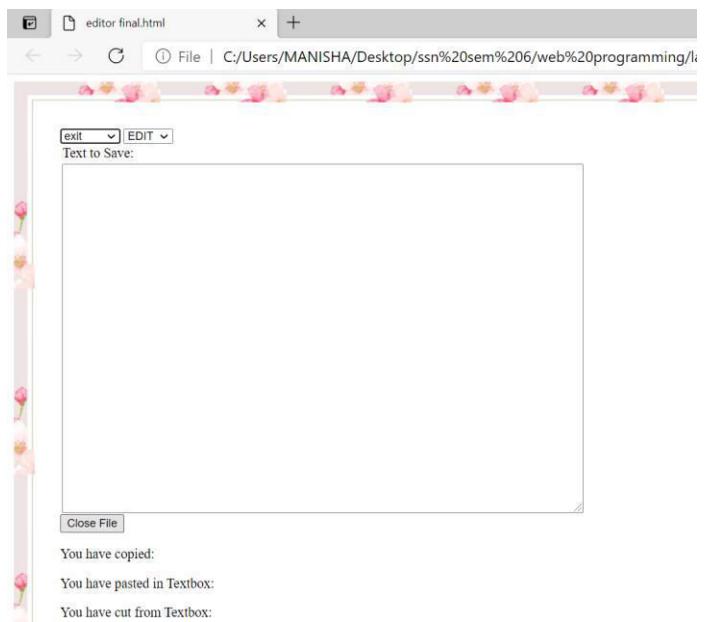
OUTPUT

The screenshot shows a web browser window with the title "editor final.html". The address bar displays the path "C:/Users/MANISHA/Desktop/ssn%20sem%206/web%20programming/lab/cake%20final.html". The main content area features a decorative border with pink roses and a central text input field. At the top left of the input field are two dropdown menus: "open" and "EDIT". Below these is the placeholder text "Text to Save:". Inside the text area, the text "hello all" is visible. At the bottom of the page, there is a section for file operations with the text "Select a File to Load:" followed by a "Choose File" button and the filename "testing.txt". To the right of this is a "Load Selected File" button. Below this section, three status messages are displayed: "You have copied:", "You have pasted in Textbox:", and "You have cut from Textbox:".

The screenshot shows a web browser window with the title "editor final.html". The address bar displays the path "C:/Users/MANISHA/Desktop/ssn%20sem%206/web%20p". The main content area contains a text input field with the placeholder "Text to Save:" and the text "hello all" highlighted. Above the input field are two buttons: "open" and "copy". Below the input field are buttons for "Select a File to Load:", "Choose File", "testing.txt", "Load Selected File", and "Copy". The page also displays messages about file operations: "You have copied: true", "You have pasted in Textbox:", and "You have cut from Textbox:". The browser has a decorative vertical sidebar on the left.







RESULT

The above code was successfully executed to implement an editor using Angular JS.

Exp-9

Date- 13/04/2021

Dynamic website using Node & Mongodbs.

AIM-

Create dynamic website using Node & Mongodbs.

PROCEDURE

- **Create** a new **database** in Mongodbs using ‘**use**’ command - use mydb
- Create a **collection** within the db using ‘**db.createCollection(name, options)**’ command, name is name of collection to be created. Options is a document and is used to specify configuration of collection.
- Install MongoDB driver in Node JS using ‘**npm install mongodb**’
- Node Js uses this module manipulate MongoDB databases - **var mongo = require('mongodb');**
- Connect the mongo with node using **MongoClient.connect(url, function(err, db) {}** where url="mongodb://localhost:27017/";
- Insert into database using **insertOne()** which is an object containing the name(s) and value(s) of each field in the document you want to insert.
- Select data from a collection in MongoDB using the **findOne()** method which returns the first occurrence in the selection.
- Delete a record, or document we use the **deleteOne()** method. The first parameter of the deleteOne() method is a query object defining which document to delete.
- Update a record, or document using the **updateOne()** method. The first parameter of the updateOne() method is a query object defining which document to update. If we want to update only specific field we use ‘**\$ set**’ operator –
egs - var query={Rno:result.Rno};
 var upd_val={\$set: {Rno: result.Rno , Name:result.Name , Age: result.Age ,
 • Department:result.newDepartment}};
 dbo.collection("student").updateOne(query,upd_val,function(err,res){}

CODE

switch student.js

```
var mongo = require('mongodb');
var MongoClient=require('mongodb').MongoClient;
var url="mongodb://localhost:27017/";
const prompt=require('prompt');

prompt.start();
console.log("1.Insert\n2.Update\n3.Delete\n4.Exit\n");
prompt.get(['choice'],function(err,result){
  if(err) { return onErr(Err); }
  switch(result.choice) {
```

```

        case "1":
            console.log("INSERT");
            prompt.get(['Rno','Name','Age','Department'],function(err,result){
                if(err) { return onErr(Error); }
                console.log('Data from user :');
                console.log('Rno - ' + result.Rno);
                console.log('Name - ' + result.Name);
                console.log('Age - ' + result.Age);
                console.log('Department - ' + result.Department);
                MongoClient.connect(url,{useUnifiedTopology: true},function(er
r,db)
{
    if(err) throw err;
    var dbo=db.db("manisha");
    var obj={Rno: result.Rno , Name:result.Name, Age: result.A
ge , Department :result.Department};
    dbo.collection("student").insertOne(obj,function(err,res){
        if(err) throw err;
        console.log("Inserted 1 student document !! ");
        db.close();
    });
});
});
});

break;
case "2":
    console.log("UPDATE");
    prompt.get(['Rno','Name','Age','newDepartment'],function(err,resul
t){
    if(err) { return onErr(Error); }
    MongoClient.connect(url,{useUnifiedTopology: true},function(er
r,db)
{
    if(err) throw err;
    var dbo=db.db("manisha");
    var query={Rno:result.Rno};
    var upd_val={$set: {Rno: result.Rno , Name:result.Name , A
ge: result.Age ,Department:result.newDepartment}};
    dbo.collection("student").updateOne(query,upd_val,function
(err,res){
        if(err) throw err;
        if(res.result.n=="0")
            console.log("Key not found !! ");
        else
        {
            console.log(res.result.n+ " student document Updated
!! ");
        }
    });
});
});
});
});
});
```

```

        db.close();
    }
});
});
break;
case "3":
    console.log("DELETE");
    prompt.get(['Rno'],function(err,result){
        if(err) { return onErr(Error); }
        MongoClient.connect(url,{useUnifiedTopology: true},function(er
r,db)
{
    if(err) throw err;
    var dbo=db.db("manisha");
    var query={Rno:result.Rno};
    dbo.collection("student").deleteOne(query,function(err,res
){
        if(err) throw err;
        if(res.result.n=="0")
            console.log("Key not found !! ");
        else
        {
            console.log(res.result.n+ " student document Deleted!
! ");
            db.close();
        }
    });
});
break;
default:
    console.log("EXIT")
})
});
}

function onErr(err){
    console.log(err);
    return 1;
}

```

OUTPUT

```
PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE 1: powershell

Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Users\MANISHA\Desktop\ex 10 - dynamic webside using mongodb and node js> node switch_student.js
1.Insert
2.Update
3.Delete
4.Exit

prompt: choice: 1
INSERT
prompt: Rno: 1
prompt: Name: Ann
prompt: Age: 20
prompt: Department: IT
Data from user :
Rno - 1
Name - Ann
Age - 20
Department - IT
Inserted 1 student document !!

PS C:\Users\MANISHA\Desktop\ex 10 - dynamic webside using mongodb and node js> node switch_student.js
1.Insert
2.Update
3.Delete
4.Exit

prompt: choice: 1
INSERT
prompt: Rno: 2
prompt: Name: Ben
prompt: Age: 21
prompt: Department: CSC
Data from user :
Rno - 2
Name - Ben
Age - 21
Department - CSC
Inserted 1 student document !!

PS C:\Users\MANISHA\Desktop\ex 10 - dynamic webside using mongodb and node js> node switch_student.js
1.Insert
2.Update
3.Delete
4.Exit

prompt: choice: 1
INSERT
prompt: Rno: 3
prompt: Name: Clare
prompt: Age: 20
prompt: Department: ECE
Data from user :
Rno - 3
Name - Clare
Age - 20
Department - ECE
Inserted 1 student document !!

PS C:\Users\MANISHA\Desktop\ex 10 - dynamic webside using mongodb and node js> node switch_student.js
1.Insert
2.Update
3.Delete
4.Exit

prompt: choice: 2
UPDATE
prompt: Rno: 2
prompt: Name: Ben
prompt: Age: 20
prompt: newDepartment: ECE
1 student document Updated !!
```

iisha.student

manisha.student

DOCUMENTS 3 TOTAL SIZE 241B AVG. SIZE 80B INDEXES 1 TOTAL SIZE 36.0KB AVG. SIZE 36.0KB

Documents Aggregations Schema Explain Plan Indexes Validation

FILTER { field: 'value' } OPTIONS FIND RESET ...

ADD DATA VIEW

Displaying documents 1 - 3 of 3 < > C REFRESH

```

_id: ObjectId("6088fe73ef7ec0723cd2ace5")
Rno: "1"
Name: "Ann"
Age: "20"
Department: "IT"

_id: ObjectId("6088fe9ab8d9d440fc36397a")
Rno: "2"
Name: "Ben"
Age: "20"
Department: "ECE"

_id: ObjectId("6088fec33e0ef86984496177")
Rno: "3"
Name: "Clare"
Age: "20"
Department: "ECE"

```

PS C:\Users\MANISHA\Desktop\ex 10 - dynamic website using mongodb and node js> node switch_student.js

```

1.Insert
2.Update
3.Delete
4.Exit

prompt: choice: 3
DELETE
prompt: Rno: 3
1 student document Deleted!!

```

manisha.student

manisha.student Documents

manisha.student

DOCUMENTS 3 TOTAL SIZE 241B AVG. SIZE 80B INDEXES 1 TOTAL SIZE 36.0KB AVG. SIZE 36.0KB

Documents Aggregations Schema Explain Plan Indexes Validation

FILTER { field: 'value' } OPTIONS FIND RESET ...

ADD DATA VIEW

Displaying documents 1 - 2 of 2

`_id: ObjectId("6088fe73ef7ec0723cd2ace5")
Rno: "1"
Name: "Ann"
Age: "20"
Department: "IT"`

`_id: ObjectId("6088fe9ab8d9d440fc36397a")
Rno: "2"
Name: "Ben"
Age: "20"
Department: "ECE"`

RESULT

The above code was successfully executed to create a dynamic website using node and mongodb.

Exp-10

Date- 13/04/2021

Simple web application using MEAN stack.

AIM-

Creating a simple web application using MEAN stack.

PROCEDURE

- Set up the components of MEAN stack- MongoDB, ExpressJS, AngularJS, NodeJS
- The json file is interesting because this file has all the dependencies and development-only dependencies of the project. Some MongoDB dependencies are added there later.
- Get the files for configuring the Typescript compilation.
- Get the json file that is for the Angular CLI.
- The e2e folder is for end-to-end testing and node_modules stores all the dependencies that are listed in json.
- In the src folder, the angular application lives in. More config files and an app is obtained.
- In-app folder, the meat of our Angular application is written.

CODE

mainhost.js

```
const express = require("express");
const MongoClient = require('mongodb').MongoClient;
const app = express();
app.use(express.json());

app.use(express.static(__dirname+'/public'));

app.get("/", (req, res) => {
    res.sendFile(__dirname + "/main.html");
});

let db = null;
MongoClient.connect('mongodb://localhost', (err, client) => {
    db = client.db('manisha');
})

app.get("/transaction", (req, res) => {
    db.collection("transaction").find({}).toArray(function (err, result) {
        res.send(result);
    });
});

app.put('/transaction', (req, res) => {
    var trans = req.body;
    console.log(trans);
```

```

trans._id = Math.random().toString();
db.collection("transaction").insertOne(trans, function (err, resp) {
    if (err) throw err;
    console.log("1 document inserted");

});

res.send("PUT Request Called")
});

app.delete("/transaction", (req, res) => {
    var name_del = req.query.CV;
    console.log(name_del);
    var myquery = { CV:name_del };
    db.collection("transaction").deleteOne(myquery, function(err, obj) {
        if (err) throw err;
        console.log(obj)
        console.log("1 document deleted");

    });
    res.send("DELETE Request Called")
});
app.listen(8000);

```

main.html

```

<!DOCTYPE html>
<html ng-app="myApp">
<head>
    <!--import the angularjs libraries-->
    <script src="https://cdnjs.cloudflare.com/ajax/libs/angular.js/1.4.7/angular.min.js">
    </script>
    <script src="https://cdnjs.cloudflare.com/ajax/libs/angular.js/1.4.7/angular-route.min.js">
    </script>
    <link rel="stylesheet" type="text/css" href="form-style.css">
    <title>MENU</title>
    <script src="https://kit.fontawesome.com/65f53714a6.js" crossorigin="anonymous"></script>

</head>
<body>
<center>

<nav class="{{active}}>

```

```

        <a href="#" class="" ng-click="active='paris'" style="font-
family: Futura;">PAYMENT</a>
        <a href="#/second" class="" ng-click="getRequest()" " style="font-
family: Futura;">
            TRANSACTIONS</a>

    </nav>
</center>

<div ng-view></div>

<script>

var app = angular.module('myApp', [ 'ngRoute' ]);
app.config(function ($routeProvider) {
    $routeProvider

        .when('/', {
            templateUrl: 'validation.html',
            controller: 'FirstController'
        })

        .when('/second', {
            templateUrl: 'list.html',
            controller: 'transactionController'
        })

        .otherwise({redirectTo: '/'});
});

app.controller('FirstController', function ($scope,$http) {
    $scope.save = function()
    {
        if(!$scope.validate())
        {
            return;
        }
        var result=
        {
            "CardNumber" :$scope.text1,
            "Name" :$scope.text3,
            "CVV" : $scope.text2 ,
            "Month" :$scope.expiryMonth ,
            "Year" : $scope.expiryYear
        };
        console.log(result);
    }
});

```

```

$http.put("transaction",result).then(
    function successCallback(response)
    {
        $scope.transactions = response.data;
        console.log($scope.transactions);
    },
    function errorCallback(response)
    {
        console.log("Unable to perform get request");
    }
);

};

$scope.validate = function ()
{
    var isValid = true;
    document.getElementById('modify').innerHTML=document.lastModified;
    var form = document.getElementById('form1');
    var cc= document.getElementById('text1');
    var cvv1= document.getElementById('text2');
    var name1= document.getElementById('text3');
    var expiryMonth = document.getElementById('expiryMonth');
    var expiryYear = document.getElementById('expiryYear');
    var cardno1 = /(^4?([0-9]{3})?[-]?([0-9]{4})?[-]?([0-9]{4})?[-]?([0-9]{4})?$/ ;
    var cardno2 = /^((5?([1-5][0-9]{2})?[-]?([0-9]{4})?[-]?([0-9]{4})?[-]?([0-9]{4}))|((2?(22[1-9])?[-]?([0-9]{4})?[-]?([0-9]{4}))|((2?(22[3-9][0-9])?[-]?([0-9]{4})?[-]?([0-9]{4})?[-]?([0-9]{4}))|((2?(26[0-9]{2})?[-]?([0-9]{4})?[-]?([0-9]{4})?[-]?([0-9]{4}))|((27?([0-1][0-9])?[-]?([0-9]{4})?[-]?([0-9]{4}))|((2720)?[-]?([0-9]{4})?[-]?([0-9]{4}))|((2720)?[-]?([0-9]{4})?[-]?([0-9]{4})))$/ ;
    var cardno3 = /(^3?((?:0[0-5]|68)[0-9])[0-9])?[-]?([0-9]{4})?[-]?([0-9]{4})?[-]?([0-9]{2})$/;
    var letters = /^[A-Za-z ]+$/;
    if(name1.value.match(letters));
    else
    { alert("Enter name with alphabets alone ");
        isValid = false;
    }
    if(cc.value=="" || cc.value==null)
    {
        alert("Please enter card number");
        isValid = false;
    }
    if(cvv1.value=="" || cvv1.value==null)
    {

```

```

        alert("Please enter CVV");
        isValid = false;
    }
    if(name1.value=="" || name1.value==null)
    {
        alert("please enter valid Card holder name");
        isValid = false;
    }
    if(cc.value.match(cardno1))
    {
        var parent = document.getElementById("dom");
        parent.removeChild(parent.childNodes[0]);
        alert("valid visa card number");
    }
    else if(cc.value.match(cardno2))
    {
        var parent = document.getElementById("dom");
        parent.removeChild(parent.childNodes[0]);
        alert("valid master card number");
    }
    else if(cc.value.match(cardno3))
    {
        var parent = document.getElementById("dom");
        parent.removeChild(parent.childNodes[0]);
        alert("valid diner's club card number");
    }
    else
    {

        var para = document.createElement("p");
        var node = document.createTextNode("Invalid card number");
        para.appendChild(node);
        var element = document.getElementById("dom");
        element.insertBefore(para, element.childNodes[0]);
        isValid = false;
    }

    var month = expiryMonth.value;
    var year = expiryYear.value;
    var d = new Date();
    if(year<d.getFullYear())
    {
        alert("Expired card");
        isValid = false;
    }
    else if(month>d.getMonth())
    {
        alert("non-expired card");
    }
}

```

```

        }
        else
        {
            alert("Expired card");
            isValid = false;
        }
        return isValid;
    }
});

app.controller('transactionController', function ($scope, $http)
{
    $scope.message = 'Hello from SecondController';
    $scope.getRequest = function ()
    {
        console.log("I've been pressed!");
        $http.get("transaction").then(
            function successCallback(response)
            {
                $scope.transactions = response.data;
                console.log($scope.transactions);
            },
            function errorCallback(response)
            {
                console.log("Unable to perform get request");
            }
        );
    };

    $scope.deleteTransaction = function (CVV) {
        console.log("I've been deleted! " + CVV);
        $http.delete("transaction",
        {
            params: {
                CVV: CVV
            }
        }).success(function (data) {
            alert('Exit status ' + data);
        });
    };
});

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

```

Validation.html

```
<div class="mail">
    <h2>Input Credit Card No.(VISA)</h2>
    <ul>
        <li><h4>CARD HOLDER NAME</h4>
            <input type='text' id='text3' name='text3' ng-model="text3"></li>
        </ul>
        <ul>
            <li>
                <h4>CARD NUMBER</h4>
                
                
                
                <input type='text' id='text1' name='text1' placeholder="0000000000000000" ng-model="text1"></li>
            </ul>
            <h2 id='dom'>CVV</h2>
            <ul>
                <li><input type='text' id='text2' name='text2' placeholder="XXX" ng-model="text2"></li>
            </ul>
            <h2>Expiration Date</h2>
            <ul>
                <select id="expiryMonth" name='expiryMonth' ng-model="expiryMonth">
                    <option selected> Month </option>
                    <option>01</option>
                    <option>02</option>
                    <option>03</option>
                    <option>04</option>
                    <option>05</option>
                    <option>06</option>
                    <option>07</option>
                    <option>08</option>
                    <option>09</option>
                    <option>10</option>
                    <option>11</option>
                    <option>12</option>
                </select>
                <select id="expiryYear" name='expiryYear' ng-model="expiryYear">
                    <option selected>Year</option>
                    <option>2018</option>
                    <option>2019</option>
                    <option>2020</option>
                    <option>2021</option>
                    <option>2022</option>
                    <option>2023</option>
                    <option>2024</option>
                    <option>2025</option>
                </select>
            </ul>
        </ul>
    </div>
```

```

        <option>2026</option>
        <option>2027</option>
        <option>2028</option>
        <option>2029</option>
        <option>2030</option>
    </select>
</ul>
<ul>
<p>last modified @ <span id="modify"> </span></p>
<li class="submit"><input type="submit" name="submit" value="Submit" ng-click="save()"/></li>
<h2>Update new cvv</h2>
<h2>Name</h2>
<input type='text' id='text6' name='text6' ng-model="text6"></li>
<h2>CVV</h2>
<li><input type='text' id='text5' name='text5' placeholder="XXX" ng-model="text5"></li>
<li class="submit"><input type="submit" name="submit" value="Update" ng-click="update()" /></li>
</div>

```

List.html

```

<style>
    .styled-table {
        border-collapse: collapse;
        margin: 25px 0;
        font-size: 0.9em;
        font-family: sans-serif;
        min-width: 400px;
        box-shadow: 0 0 20px rgba(0, 0, 0, 0.15);
    }

    .styled-table thead tr {
        background-color: white;
        color: #666;
        text-align: left;
    }

    .styled-table th,
    .styled-table td {
        padding: 12px 15px;
    }

    .styled-table tbody tr {
        border-bottom: 1px solid #dddddd;
        color: #666;
    }

```

```

.styled-table tbody tr:nth-of-type(even) {
    background-color: #f3f3f3;
}

.styled-table tbody tr:last-of-type {
    border-bottom: 2px solid orange;
}

.styled-table tbody tr.active-row {
    font-weight: bold;
    color: #666;
}

</style>
<div align="center">
    <table ng-app="myApp" ng-controller="transactionController" ng-init='getRequest()' class="styled-table">
        <thead>
            <th>
                CardNumber
            </th>
            <th>
                Name
            </th>
            <th>
                CVV
            </th>
            <th>
                Month
            </th>
            <th>
                Year
            </th>
        </thead>
        <tr ng-repeat="t in transactions">
            <td>{{t.CardNumber}}</td>
            <td>{{t.Name}}</td>
            <td>{{t.CVV}}</td>
            <td>{{t.Month}}</td>
            <td>{{t.Year}}</td>
            <td><button ng - click="deleteTransaction(t.CVV)">Delete</button></td>
        </tr>
    </table>
</div>

```

OUTPUT

```
PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE 1: node + □ × Copyright (C) Microsoft Corporation. All rights reserved. Try the new cross-platform PowerShell https://aka.ms/pscore6 PS C:\Users\MANISHA\Desktop\ssn sem 6\web programming\lab\cake ordering system\ex 9 - mean stack> node mainhost.js (node:10788) [MONGODB DRIVER] Warning: Current Server Discovery and Monitoring engine is deprecated, and will be removed in a future version. To use the new Server Discover and Monitoring engine, pass option { useUnifiedTopology: true } to the MongoClient constructor. (Use `node --trace-warnings ...` to show where the warning was created)
```

MENU X +

localhost:8000/#/

PAYMENT TRANSACTIONS

Input Credit Card No.(VISA)

CARD HOLDER NAME

CARD NUMBER

CVV

Expiration Date

last modified @

x +

localhost:8000/#/second

CardNumber	Name	CVV	Month	Year
3000-0000-0000-40	Ann	225	07	2025
2720-8224-6310-9651	Ben	884	09	2026
5238-8010-3260-9491	Clare	777	06	2027

Screenshot showing two consecutive HTTP requests to `localhost:8000/#/`.

The first request displays a form titled "Input Credit Card No.(VISA)" with fields for CARD HOLDER NAME (Derick), CARD NUMBER (411-88), CVV (123), and Expiration Date (10/2027). A message at the bottom states "last modified @ 04/28/2021 10:03:15". The "Submit" button is visible.

The second request shows a modal dialog from "localhost:8000 says" stating "valid diner's club card number" with an "OK" button.

The third request displays the same form as the first, with the card number changed to "3056-9309-0259-04" and the CVV changed to "878". The expiration date remains "10/2027". The "Submit" button is visible.

The image displays three screenshots of a web application interface, likely a payment gateway or transaction manager.

Screenshot 1: A modal dialog box is displayed, showing the message "localhost:8000 says non-expired card". Below the dialog is a card input form. The card holder name is "Derick". The card number is "3056-9309-0259-04". The CVV is "878". The expiration date is set to "10 2027". A note at the bottom states "last modified @ 04/28/2021 10:03:15". A "Submit" button is visible at the bottom right of the form.

Screenshot 2: A second window titled "PAYMENT TRANSACTIONS" shows the same card input form. The card holder name is "Derick". The card number is "3056-9309-0259-04". The CVV is "878". The expiration date is set to "10 2027". A note at the bottom states "last modified @ 04/28/2021 10:03:15". A "Submit" button is visible at the bottom right of the form.

Screenshot 3: A third window titled "PAYMENT TRANSACTIONS" displays a table of transaction history. The table has columns: CardNumber, Name, CVV, Month, and Year. The data is as follows:

CardNumber	Name	CVV	Month	Year
3000-0000-0000-40	Ann	225	07	2025
2720-8224-6310-9651	Ben	884	09	2026
5238-8010-3260-9491	Clare	777	06	2027
3056-9309-0259-04	Derick	878	10	2027

CardNumber	Name	CVV	Month	Year	
3000-0000-0000-40	Ann	225	07	2025	<button>Delete</button>
2720-8224-6310-9651	Ben	884	09	2026	<button>Delete</button>
5238-8010-3260-9491	Clare	777	06	2027	<button>Delete</button>
3056-9309-0259-04	Derick	878	10	2027	<button>Delete</button>
3852-0000-0232-37	Elsa	343	10	2027	<button>Delete</button>
5114-4963-5398-4312	Ferb	188	10	2026	<button>Delete</button>

CardNumber	Name	CVV	Month	Year	
2720-8224-6310-9651	Ben	884	09	2026	<button>Delete</button>
5238-8010-3260-9491	Clare	777	06	2027	<button>Delete</button>
3056-9309-0259-04	Derick	878	10	2027	<button>Delete</button>
3852-0000-0232-37	Elsa	343	10	2027	<button>Delete</button>
5114-4963-5398-4312	Ferb	188	10	2026	<button>Delete</button>

CardNumber	Name	CVV	Month	Year	
3000-0000-0000-40	Ann	225	07	2025	<button>Delete</button>
2720-8224-6310-9651	Ben	884	09	2026	<button>Delete</button>
5238-8010-3260-9491	Clare	777	06	2027	<button>Delete</button>
3056-9309-0259-04	Derick	878	10	2027	<button>Delete</button>
3852-0000-0232-37	Elsa	343	10	2027	<button>Delete</button>

RESULT

The above code was successfully executed.

Exp-11

Date- 20/04/2021

Chat application with multiple rooms using Node and Express.

AIM-

Create a chat application with multiple rooms using Node and Express.

PROCEDURE

- To create a chat application, we use **Socket.IO** is a library which enables real-time, bidirectional and event-based communication between the browser and the server.
- It consists of:
 - a Node.js server
 - a Javascript client library for the browser
- Install the socket.io using '**npm install socket.io express -save**'
- Add **socket.io library** to the nodeJS using <script src="/socket.io/socket.io.js"></script>
- Establish socket connection using **var socket = io.connect('http://localhost:8080');**
- The **socket.on('connect')** is an event which is fired upon a successful connection from the web browser. We then have a function callback that will send to the server alert asking name of user.
- Use **socket.emit('adduser', prompt("What's your name?"));** - Emits an event to the socket identified by the string name.
- Use **socket.rooms** -request A Set of strings identifying the rooms this client is in.
- Use **socket.join(room)** - Adds the socket to the given room or to the list of rooms.
- Use **socket.leave(room)** - Removes the socket from the given room
- Use Flag: '**broadcast**'- Sets a modifier for a subsequent event emission that the event data will only be broadcast to every socket by the sender.
egs-
socket.broadcast.to('room1').emit('updatechat', 'SERVER', username + ' has connected to his room');

CODE

index.html

```
!DOCTYPE html>
<html>
<head>
<style>
#bordering {
    border: 25px solid transparent;
    padding: 30px;
    border-image: url(border.jpg) 60 round;
    background-color:PeachPuff;
}
```

```


</style>
<script src="/socket.io/socket.io.js"></script>
<script src="https://ajax.googleapis.com/ajax/libs/jquery/1.6.4/jquery.min.js"
></script>
<script>
    var socket = io.connect('http://localhost:8080');
    socket.on('connect', function(){
        socket.emit('adduser', prompt("What's your name?"));
    });
    socket.on('updatechat', function (username, data) {
        $('#conversation').append('<b>' + username + ':</b> ' + data + '<br>');
    });
    socket.on('updaterooms', function(rooms, current_room) {
        $('#rooms').empty();
        $.each(rooms, function(key, value) {
            if(value == current_room){
                $('#rooms').append('<div>' + value + '</div>');
            }
            else {
                $('#rooms').append('<div><a href="#" onclick="switchRoom(\'' + value + '\')">' + value + '</a></div>');
            }
        });
    });
}

function switchRoom(room){
    socket.emit('switchRoom', room);
}
$(function(){
    $('#datasend').click( function() {
        var message = $('#data').val();
        $('#data').val('');
        socket.emit('sendchat', message);
    });

    $('#data').keypress(function(e) {
        if(e.which == 13) {
            $(this).blur();
            $('#datasend').focus().click();
        }
    });
});

</script>
<body >
<div id="bordering" >


```

```

<b>ROOMS</b>
<div id="rooms"></div>
<div id="conversation"></div>
<input id="data" style="width:200px;" />
<input type="button" id="datasend" value="send" />
</div>
</body>

```

App.js

```

const express = require('express');
const app = express();
const http = require('http').Server(app);
const io = require('socket.io')(http);
app.use(express.static(__dirname + '/public'));
app.get('/', function (req, res) {
  res.sendFile(__dirname + '/index.html');
});

var usernames = {};
var rooms = ['room1', 'room2', 'room3'];

io.sockets.on('connection', function (socket) {

  socket.on('adduser', function(username){
    socket.username = username;
    socket.room = 'room1';
    usernames[username] = username;
    socket.join('room1');
    socket.emit('updatechat', 'SERVER', 'you have connected to room1');
    socket.broadcast.to('room1').emit('updatechat', 'SERVER', username + ' has connected to this room');
    socket.emit('updaterooms', rooms, 'room1');
  });

  socket.on('sendchat', function (data) {
    io.sockets.in(socket.room).emit('updatechat', socket.username, data);
  });

  socket.on('switchRoom', function(newroom){
    socket.leave(socket.room);
    socket.join(newroom);
    socket.emit('updatechat', 'SERVER', 'you have connected to ' + newroom);
    socket.broadcast.to(socket.room).emit('updatechat', 'SERVER', socket.username + ' has left this room');
    socket.room = newroom;
  });
});

```

```

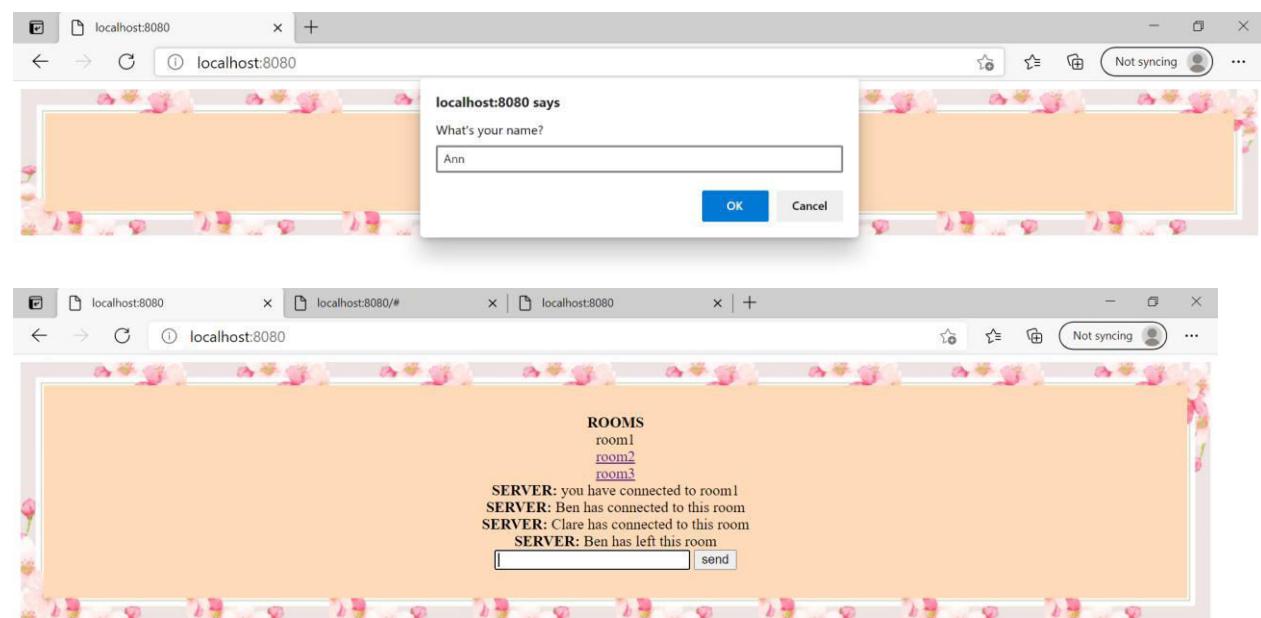
        socket.broadcast.to(newroom).emit('updatechat', 'SERVER', socket.username + ' has joined this room');
        socket.emit('updaterooms', rooms, newroom);
    });

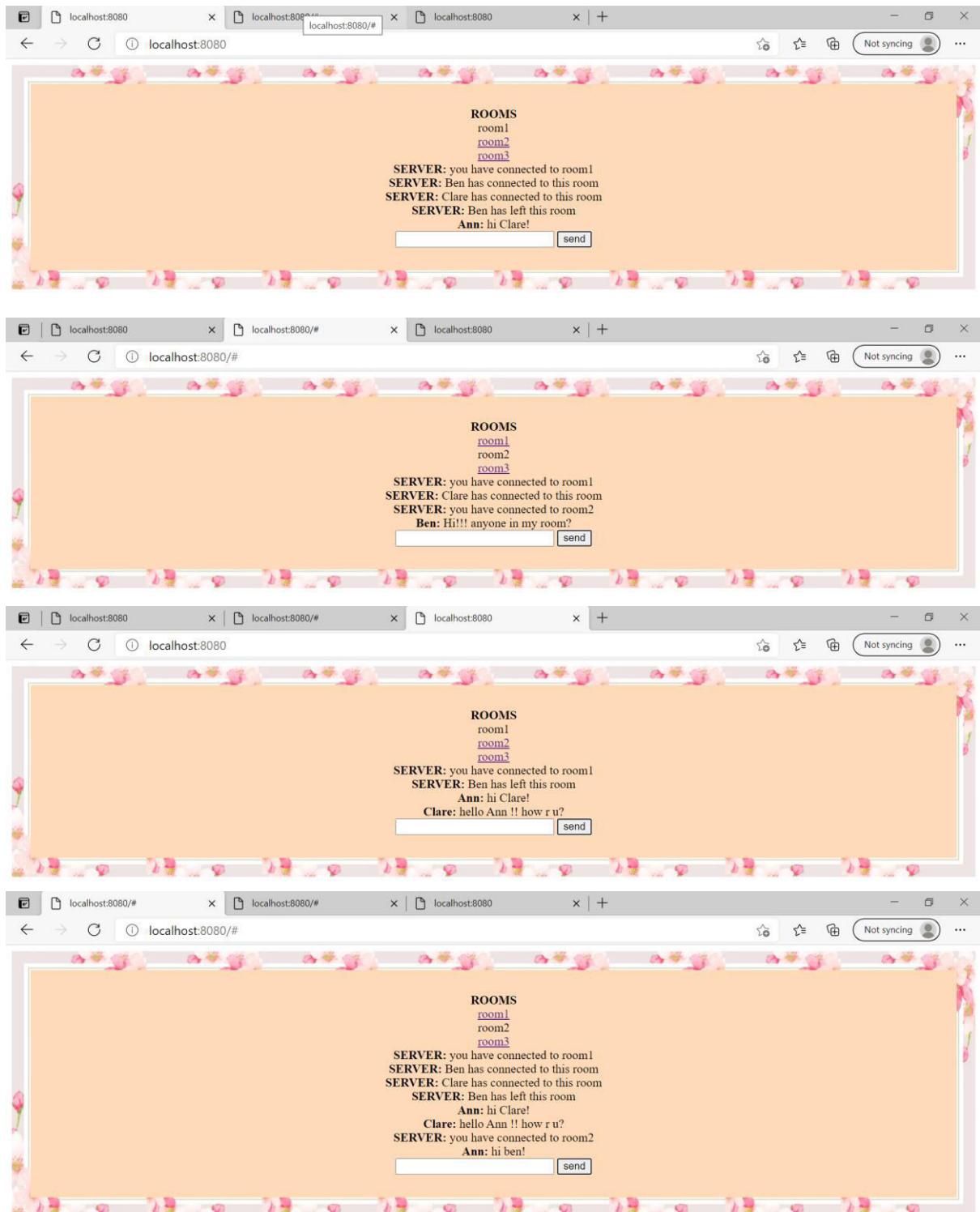
socket.on('disconnect', function(){
    delete usernames[socket.username];
    io.sockets.emit('updateusers', usernames);
    socket.broadcast.emit('updatechat', 'SERVER', socket.username + ' has disconnected');
    socket.leave(socket.room);
});
});

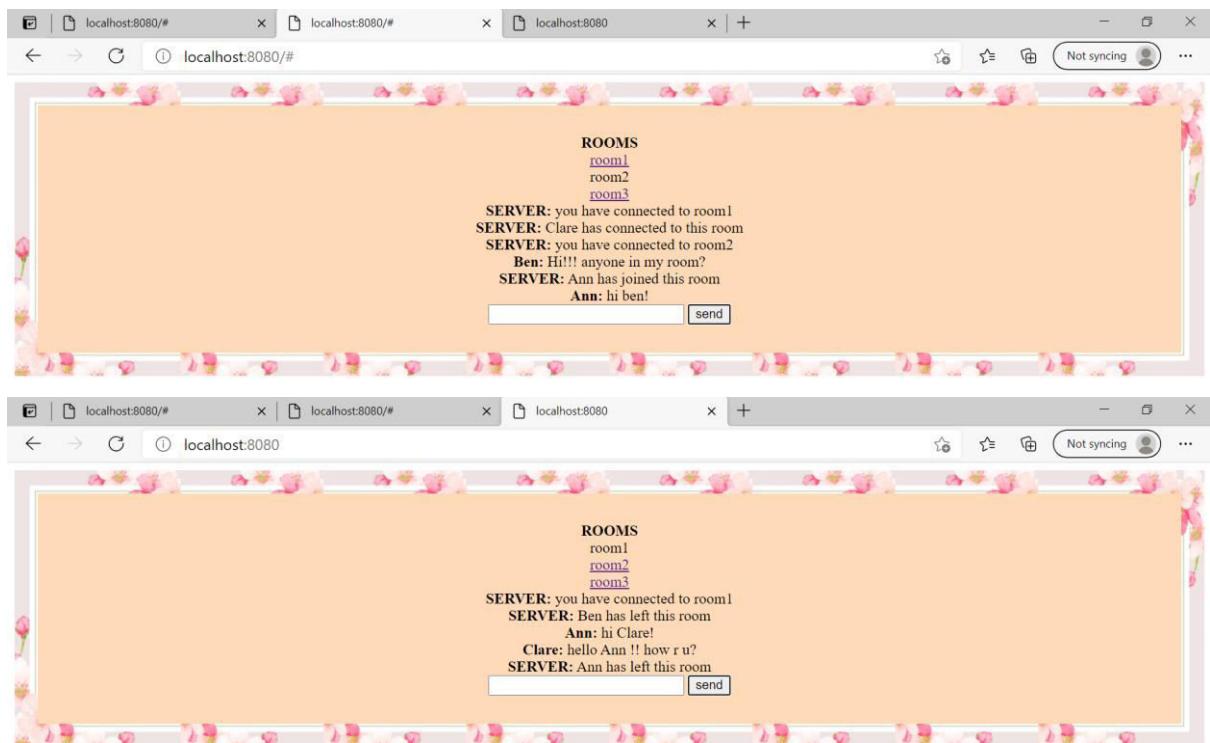
const server = http.listen(8080, function() {
    console.log('listening on *:8080');
});

```

OUTPUT







RESULT

The above code was successfully executed to implement a chat application with multiple rooms using node and express.

Exp-12

Date- 27/04/2021

RESTful web service for Calculator Application

AIM-

Create a RESTful web service for Calculator Application

PROCEDURE

- Initialise our Angular JS applications using '**ng-app**' and use '**ng-controller**' directive to control the the data (operand and operator) of angular application
- **REST**- represents the architectural styles for implementing web service using http protocol
- We identify each RESTful web service using an **unique URL**
- We cache the result of particular operation using the **GET method -**
`app.get("/add", (req, res) {})`
- We use HTTP methods like **get,post,put** to implement the **concept of rest architecture**.
- Use URI- uniform resource identifier which provides resource representation such as JSON and set of HTTP methods.
- Use **JSON.stringify()** method to convert a JavaScript object or value to a JSON string.

CODE

Calc.html

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Calculator</title>
<link rel="stylesheet" href="styles.css">
</head>
<body>
<script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.3.14/angular.min.js"></script>

<center><h3 id='bordering' style="background-color: peachpuff; width: 300px;">SIMPLE CALCULATOR</h3>

    <div ng-app="CalculatorApp" ng-controller="CalculatorController" id='bordering' style="background-color: peachpuff; width: 300px">
        <p>Operand 1</p>
        <p><input type="number" ng-model="first"></p>
        <p>Operand 2</p>
        <p><input type="number" ng-model="second"></p>
        <p>Choose operation</p>
        <p><select ng-model="operator">
            <option value="add">+</option>
```

```

        <option value="subtract">-</option>
        <option value="multiply">*</option>
        <option value="divide">/</option>
    </select></p>
    <button ng-click="calculate()">CALCULATE</button>
    <p>ANSWER</p>
    <p ng-model="answer">{{answer}}</p>

</div>
</center>
<script>
    angular.module('CalculatorApp', [])
        .controller('CalculatorController', function ($scope, $http) {
            $scope.calculate = function () {

                ops = $scope.operator;

                $http.get(ops,
                {
                    params: {
                        first: $scope.first,
                        second: $scope.second
                    }
                }).success(function (res) {
                    console.log('Exit status ' + JSON.stringify(res));
                    $scope.answer = res.result;
                });
            };
        });

</script>

</body>
</html>

```

Calchost.js

```

const express = require("express");

const app = express();
app.use(express.static("public"));

app.get("/", (req, res) => {
    res.sendFile(__dirname + "/calc.html");
});

app.get("/add", (req, res) => {

```

```

        var first = req.query.first;
        var second = req.query.second;
        var value = Number(first) + Number(second);
        var result = {result: value};
        res.send(result);

    });
app.get("/subtract", (req, res) => {
    var first = req.query.first;
    var second = req.query.second;
    var value = Number(first) - Number(second);
    var result = {result: value};
    res.send(result);

});
app.get("/multiply", (req, res) => {
    var first = req.query.first;
    var second = req.query.second;
    var value = Number(first) * Number(second);
    var result = {result: value};
    res.send(result);

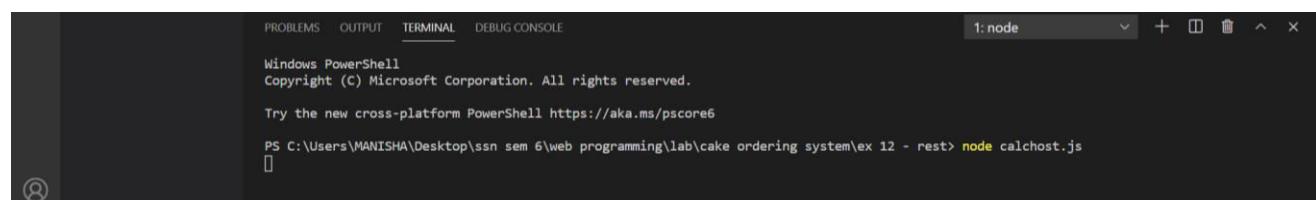
});
app.get("/divide", (req, res) => {
    var first = req.query.first;
    var second = req.query.second;
    var value = Number(first) / Number(second);
    var result = {result: value};
    res.send(result);

});

app.listen(7000);

```

OUTPUT



```

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
1: node

Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Users\MANISHA\Desktop\ssn sem 6\web programming\lab\cake ordering system\ex 12 - rest> node calchost.js
[ ]

```



SIMPLE CALCULATOR

Operand 1
132

Operand 2
12

Choose operation
+ ▾

CALCULATE

ANSWER
144



SIMPLE CALCULATOR

Operand 1
132

Operand 2
12

Choose operation
- ▾

CALCULATE

ANSWER
120



SIMPLE CALCULATOR

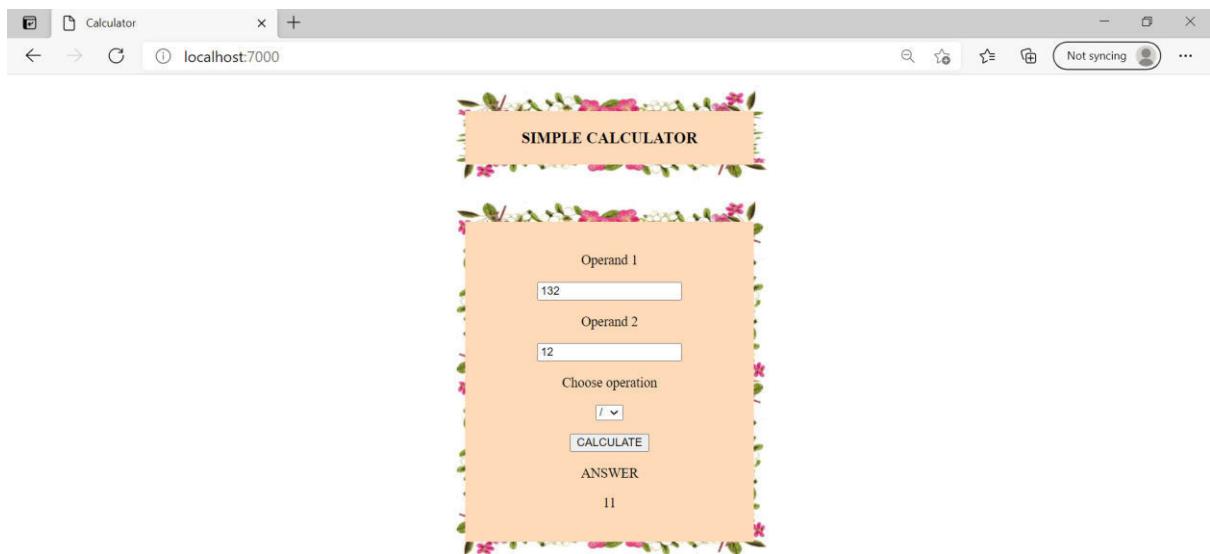
Operand 1
132

Operand 2
12

Choose operation
* ▾

CALCULATE

ANSWER
1584



RESULT

The above code was successfully executed to implement simple calculator using RESTFUL web services .