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REGISTER NO. – 20BCE1798  
COURSE NAME – INTERNET AND WEB PROGRAMMING  
COURSE CODE – CSE3002**

**LAB – 7  
DOM, AJAX AND JQUERY**

**NAME: ANSH GOEL**

**REG NO.: 20BCE1798**

## **1. Java Script DOM**

*Design an e-news paper using DOM with following feature: - Add buttons to change the headlines, content and author with respect to the date. - Customize the advertisements page based on the requirement.*

## **SOL**

**HTML along with Javascript:**

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initialscale=1.0">
<link rel="stylesheet" href="./style.css">
<title>AtoZ NewsPaper</title>
</head>
<body>
<div class="header">
<button class="btn-back"> Back
</button>
<h1>AtoZ News Paper</h1>
<button class="btn-next"> Next
</button>
</div>
<hr>
<div class="author author1">
Taurad 20-09-2021 by person 1 </div>
<div class="author author2">
Taurad-2 20-09-2021 by person 2 </div>
```

```
<hr>
<div class="content1">
<div class="news-container left">
<h2 class="news-header">This is the Headline 1</h2>
<div class="news-content">
Theresa, 25, a cashier at Key Food in Brooklyn, was excited when she received a raise a few months ago.

"But I've barely noticed it, because everything is getting more expensive," says Theresa, who requested that we only use her first name. "Groceries, bills, you name it. My paycheck just disappears. It's depressing because I don't know when I'll get another raise."
<br>
While recent pay hikes are certainly a positive development that will benefit millions of workers, they are not close to making up for years of wage stagnation. "There's a long way to go," says Brookings Institution economist Gary Burtless, pointing to the lack of relative growth of low and middle income wages over the last four decades.
<br>

<br>
The situation is the same in the hospitality industry, in which some hotel maids and housekeepers in Los Angeles will soon earn $25 an hour, but it hardly covers the cost of living increases they experience, says Lorena Lopez, an organizing director at UNITE HERE Local 11, the union that represents hotel and restaurant workers.
</div>
<div class="news-container right">
<h2 class="news-header">This is Heading 2</h2>
<div class="news-content">
This is the news related to heading 2
<br>
Toyota adds Renovo Motors to its Woven Planet R&D group
<br>
Alternatives,Technology,Emerging Technologies,Autonomous,Future\n\nContinue reading
Toyota adds Renovo Motors to its Woven Planet R&D group\n\nToyota adds Renovo Motors to its Woven Planet R&D group originally appeared
<br>
Japanese automaker Toyota is revving up acquisitions in mobility technology, adding Renovo Motors Inc., a Silicon Valley software developer, to its Woven Planet team, which is working on automated driving.\nThe addition, announced Tuesday, follows...", 
<br>
</div>

</div>
</div>
<div class="content2">
<div class="news-container left">
<h2 class="news-header">Covid virus expected to continue to transmit for a very long time: WHO</h2>
```

```
<div class="news-content">
```

Scientists have developed a three-dimensional (3D) printed vaccine patch that provides greater protection than a typical immunisation shot. The team at Stanford University and the University of North Carolina at Chapel Hill (UNC) in the U.S. applied the vaccine patch directly to the skin of animals, which is full of immune cells that vaccines target.

```
<br>
```

The number of fresh coronavirus cases was recorded at below 20,000 in India after 201 days on Tuesday, taking the country's COVID-19 tally to 3,36,97,581, while the number of active cases declined to 2,92,206, the lowest in 192 days, according to the Union Health Ministry.

```
<br>
```

Many States and Union Territories have organised mass vaccination camps across the country to reach target vaccinations, and to pre-empt the emergence of the third wave of COVID-19.

```
<br>
```

Stressing that the Covid virus may continue to transmit for a "very long time", senior WHO official Poonam Khetrapal Singh says the level of immunity in a community, through vaccination and previous infection, will determine whether it will become endemic in the long run.

```
<br>
```

India's drug regulator on Tuesday allowed vaccine manufacturer Serum Institute to enroll children between seven and 11 years of age for its COVID-19 vaccine trial. - Reuters

```
</div>
```

```
</div>
```

```
<div class="news-container right">
```

## Election Commission announces bypolls to three Lok Sabha, 30 Assembly seats

```
<div class="news-content">
```

The Election Commission (EC) on Tuesday announced byelections to three Lok Sabha constituencies – Dadra & Nagar Haveli, Khandwa and Mandi – and 30 Assembly seats across the country to be held on October 30.

"The Commission has reviewed the situations related to pandemic, flood, festivals, cold conditions in certain regions, feedback from concerned States/UT and taken into consideration all facts and circumstances and it has decided to hold bye-elections to fill vacancies in three Parliamentary Constituencies of UT of Dadra & Nagar Haveli and Daman & Diu, Madhya Pradesh and Himachal Pradesh and 30 vacancies in Assembly Constituencies of various

States," the EC said.

```
<br>
```

The Assembly seats going to bypolls were one each from Andhra Pradesh, Haryana, Maharashtra, Mizoram, Nagaland and Telangana; two seats each in Bihar, Karnataka and Rajasthan; three seats each in Himachal Pradesh, Madhya Pradesh and Meghalaya; four seats in West Bengal; and five in Assam.

The EC reiterated its orders regarding COVID-19 safety norms, including restricting election meetings to 30% of the allowed capacity of an indoor venue or 200 people and a complete ban on roadshows and bike rallies.

```

</div>
</div>
</div>
<script>
const back = document.querySelector('.btn-back') const next =
document.querySelector('.btn-next') const content1 =
document.querySelector('.content1') const content2 =
document.querySelector('.content2') const author1 = document.querySelector('.author1')
const author2 = document.querySelector('.author2') next.addEventListener('click', () => { content1.style.display = 'none' content2.style.display = 'flex'
author1.style.display = 'none'
author2.style.display = 'block'
})
back.addEventListener('click', () => { content2.style.display = 'none'
content1.style.display = 'flex' author2.style.display = 'none' author1.style.display =
'block'
})
</script>
</body>
</html>
```

**name the above HTML file as index.html**

**CSS File:**

```

* {
  box-sizing: border-box;
}
body, html {
  font-family: 'Arial', Arial, monospace;
  font-family: 'Times New Roman', Times, serif; background-color: #dfdfdf;

  color: #2f2f2f;
  text-align: justify;
}
img {
  width: 400; height:300; margin: 20px 0;
}
.header { width: 100%; display: flex;
justify-content: space-between; align-items: center;
}
h1 {
  font-size: 3.5rem;
}
button {
  padding: 10px 30px; font-size: 1.2rem; font-weight: 700;
```

```
background-color: transparent; border: 2px solid #2f2f2f;
}
button:hover { color: #f9f7f1;
background-color: #2f2f2f;
}
.author {
text-align: center;
font-family: 'Times New Roman', Times, serif; font-size: 1.2rem;
.author2 { display: none;
}
hr {
border: 1px solid #2f2f2f;
}
.content1 { display: flex;
}
.content2 { display: none;
}
.news-container { margin-top: 20px;

padding: 0 30px;
flex: 1;
}
.left {
border-right: 1px solid #2f2f2f;
}
.news-header { font-size: 2rem;
line-height: 3rem;
}
.news-content {
font-family: 'Arial', Arial, monospace; line-height: 2rem;
}
```

**name the above HTML file as style.css and save it in same folder**



Back

## AtoZ News Paper

Next

Taurad 20-09-2021 by person 1  
Taurad-2 20-09-2021 by person 2

### This is the Headline 1

Theresa, 25, a cashier at Key Food in Brooklyn, was excited when she received a raise a few months ago. "But I've barely noticed it, because everything is getting more expensive," says Theresa, who requested that we only use her first name. "Groceries, bills, you name it. My paycheck just disappears. It's depressing because I don't know when I'll get another raise."

While recent pay hikes are certainly a positive development that will benefit millions of workers, they are not close to making up for years of wage stagnation. "There's a long way to go," says Brookings Institution economist Gary Burtless, pointing to the lack of relative growth of low and middle income wages over the last four decades.

# BREAKING NEWS

The situation is the same in the hospitality industry, in which some hotel maids and housekeepers in Los Angeles will soon earn \$25 an hour, but it hardly covers the cost of living increases they experience, says Lorena Lopez, an organizing director at UNITE HERE Local 11, the union that represents hotel and restaurant workers.

-q84882950 (1).html -q55610716.html -q55610702.html -q84882950.html

Show all

## This is Heading 2

This is the news related to heading 2

Toyota adds Renovo Motors to its Woven Planet R&D group  
Alternatives, Technology, Emerging Technologies, Autonomous, Future! Continue reading Toyota adds Renovo Motors to its Woven Planet R&D group in Toyota adds Renovo Motors to its Woven Planet R&D group originally appeared on Japanese automaker Toyota is revving up acquisitions in mobility technology, adding Renovo Motors Inc., a Silicon Valley software developer, to its Woven Planet team, which is working on automated driving. In The addition, announced Tuesday, follows...\*

### Covid virus expected to continue to transmit for a very long time: WHO

Scientists have developed a three-dimensional (3D) printed vaccine patch that provides greater protection than a typical immunisation shot. The team at Stanford University and the University of North Carolina at Chapel Hill (UNC) in the U.S. applied the vaccine patch directly to the skin of animals, which is full of immune cells that vaccines target. The number of fresh coronavirus cases was recorded at below 20,000 in India after 201 days on Tuesday, taking the country's COVID-19 tally to 3,36,97,581, while the number of active cases declined to 2,92,206, the lowest in 192 days, according to the Union Health Ministry. Many States and Union Territories have organised mass vaccination camps across the country to reach target vaccinations, and to pre-empt the emergence of the third wave of COVID-19. Stressing that the Covid virus may continue to transmit for a "very long time", senior WHO official Poonam Khetrapal Singh says the level of immunity in a community, through vaccination and previous infection, will determine whether it will become endemic in the long run. India's drug regulator on Tuesday allowed vaccine manufacturer Serum Institute to enrol children between seven and 11 years of age for its COVID-19 vaccine trial. - Reuters

### Election Commission announces bypolls to three Lok Sabha, 30 Assembly seats

The Election Commission (EC) on Tuesday announced by-elections to three Lok Sabha constituencies — Dadra & Nagar Haveli, Khandwa and Mandi — and 30 Assembly seats across the country to be held on October 30. "The Commission has reviewed the situations related to pandemic, socio-economic conditions and all facts and circumstances and it has decided to hold bye-elections to fill vacancies in three Parliamentary Constituencies of UT of Dadra & Nagar Haveli and Daman & Diu, Madhya Pradesh and Himachal Pradesh and 30 vacancies in Assembly Constituencies of various States," the EC said.

The Assembly seats going to bypolls were one each from Andhra Pradesh, Haryana, Maharashtra, Mizoram, Nagaland and Telengana; two seats each in Bihar, Karnataka and Rajasthan; three seats each in Himachal Pradesh, Madhya Pradesh and Meghalaya, four seats in West Bengal; and five in Assam. The EC reiterated its orders regarding COVID-19 safety norms, including restricting election meetings to 50% of the allowed capacity of an indoor venue or 200 people and a complete ban on roadshows and bike rallies.

\* { box-sizing: border-box; } body, html { font-family: 'Arial', Arial, monospace; font-family: 'Times New Roman', Times, serif; background-color: #f0f0f0; color: #2E2E2E; text-align: justify; } img { width: 400px; height: 300px; margin: 20px 0; } header { width: 100%; display: flex; justify-content: space-between; align-items: center; } h1 { font-size: 3.5rem; } button { padding: 10px 30px; font-size: 1.2rem; font-weight: 700; background-color: transparent; border: 2px solid #2E2E2E; } button:hover { color: #99FF99; background-color: #2E2E2E; } author { text-align: center; font-family: 'Times New Roman', Times, serif; font-size: 1.2rem; author2 { display: none; } hr { border: 1px solid #2E2E2E; } content1 { display: flex; } content2 { display: none; } news-container { margin-top: 20px; padding: 0 30px; flex: 1; } left { border-right: 1px solid #2E2E2E; } news-header { font-size: 2.5rem; line-height: 3rem; } news-content { font-family: 'Arial', Arial, monospace; line-height: 2rem; }



## 2. AJAX

Create a program to change the content of the E-commerce web page using AJAX. Eg. Changing the prize of the product or stock availability values. Use the stylesheet in the page with some rules for classes

- ② Change the background color of the first ordered list
- ② Give all the items in that list blue font.
- ② Append the text — in the list!! to each element in the first ordered list.
- ② Select every link that has a —name!! attribute, and change its background color
- ② to #eee.
- ② Insert a button with id —ajax-button!! and text —More!!/, and then a div with id
- ② —ajax!! and inner HTML —Hello World!! at the very top of the document.

## SOL

AS per the understanding from mentioned requirements the following code is written feel free to have modifications

```
<html>
  <head>
    <style>
      /* Change the background color of the first ordered list First requirement */
      ol:first-of-type{
        background-color: gray;
        color: blue; /* Give all the items in that list blue font Second requirement */
      }
    </style>
  </head>
  <body>
    <h1>Welcome to our E-commerce Website</h1>
    <p>We offer a wide range of products at competitive prices. Explore our categories and make your purchase today!</p>
    <ul>
      <li>Category 1</li>
      <li>Category 2</li>
      <li>Category 3</li>
      <li>Category 4</li>
    </ul>
    <div id="ajax">Hello World!</div>
    <button id="ajax-button">More!</button>
  </body>
</html>
```

```

}

/* Append the text “in the list!” to each element in the first ordered list Third requirement */
ol:first-of-type>li::after {

    /* add content after every list element */

    content: "in the list!";


}

/* Select every link that has a “name” attribute, and change its background color #eee
Fourth requirement */

a[name] {

    color:#eee;

}

</style>

</head>

<body>

/* Insert a button with id “ajax-button” and text “More!”, and then a div with id “ajax”
and inner HTML “Hello World!” at the very top of the document */

<button id="ajax-button" >More!</button>

<div id="ajax">Hello World!</div>

<ol>

    <li class="li-text">Apple in the list!</li>
    <li class="li-text">Banana in the list!</li>
    <li class="li-text">Coke in the list!</li>
    <li class="li-text">Delicious in the list!</li>

</ol>

<ol>

    <li class="li-text">Apple in the list!</li>
    <li class="li-text">Banana in the list!</li>
    <li class="li-text">Coke in the list!</li>


```

```

<li class="li-text">Delicious in the list!</li>
</ol>
<a name='test' href="#">test</a>
<a href="#">test 2</a>
</body>
</html>

```



AS per the understanding from mentioned requirements the following code is written feel free to have modifications /\* Insert a button with id "ajax-button" and text "More!", and then a div with id "ajax" and inner HTML "Hello World!" at the very top of the document \*/ More!

Hello World!

- 1. Apple in the list in the list!
- 2. Banana in the list in the list!
- 3. Coke in the list in the list!
- 4. Delicious in the list in the list!

- 1. Apple in the list!
- 2. Banana in the list!
- 3. Coke in the list!
- 4. Delicious in the list!

test\_2



## JQuery

*Write a JQuery program to do the following in a web page*

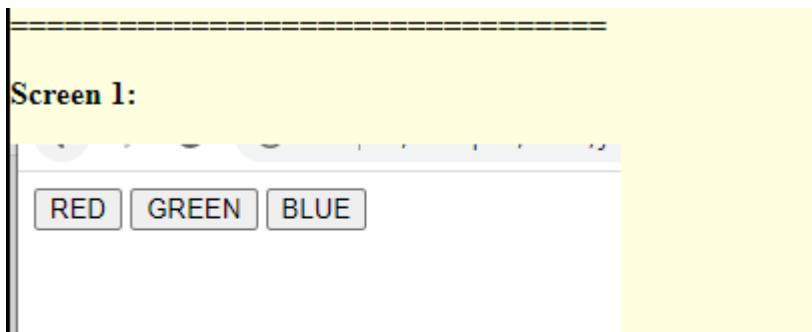
- ❑ Create three buttons with labels red, green, blue, when the mouse is moved over it the background color has to be changed respectively.
- ❑ Create a HTML page holding a list of items and an [Extract Text] button is given. Implement the extractText function which will be called when the button's onClick event is fired.
- ❑ Create a HTML page holds a list of towns, a search box and a [Search] button. Implement the search function to bold the items from the list which include the text from the search box.

## ***SOL***

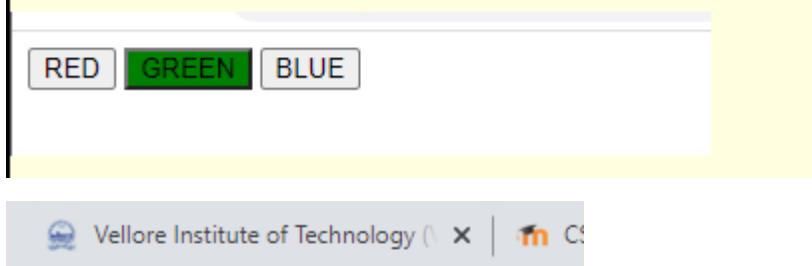
### **HTML file :**

```
<!DOCTYPE html>
<html lang="en">
<head>
    <!-- title for web page -->
    <title>jQuery</title>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <!-- jQuery from CDN -->
    <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>
    <!-- jQuery -->
    <script>
        $(document).ready(function(){
            //This line will handle mousemove event for each button
            $("input[type='button']").mousemove(function()
            {
                //select the specified button and change background color
                $(this).css("background-color",$(this).val());
            })
        });
    </script>
</head>
<body>
```

```
<input type="button" value="RED"/>  
<input type="button" value="GREEN"/>  
<input type="button" value="BLUE"/>  
</body>  
</html>
```



**Screen 2:** Screen when mouse is over the specified button



```
<!DOCTYPE html>  
<html lang="en">
```

```
<head>
    <!-- title for page -->
    <title>HTML list</title>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1">
</head>

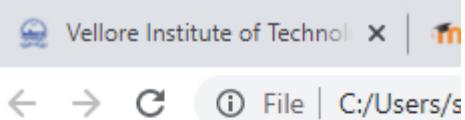
<body>
    <ul>
        <li>List Item 1</li>
        <li>List Item 2</li>
        <li>List Item 3</li>
    </ul>
    <!-- button -->
    <input type="button" value="Extract Text" onclick="extractText()" />
    <!-- script is used for javascript -->
    <script>
        function extractText()
        {
            //take the list items and display text
            alert(document.getElementsByTagName("ul")[0].innerText);
        }
    </script>
</body>
</html>
```

**Screen 1:**

- List Item 1
- List Item 2
- List Item 3

**Extract Text**

**Screen 2: Screen when button is clicked**



- List Item 1
- List Item 2
- List Item 3

**Extract Text**

\