

# Module 11 :- Advance JavaScript BOM & DOM

1). Create a program to Hide/Show the password :-

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta http-equiv="X-UA-Compatible" content="IE=edge" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>Document</title>
  </head>
  <body>
    <b><p>Click on the checkbox to show or hide password:</p></b>

    <b>Password</b>:
    <input type="Password" id="Typepass" />

    <input type="checkbox" onclick="Toggle()" />
    <b>Show Password</b>

    <script>
      // Change the type of input to password or text
      function Toggle() {
        var temp = document.getElementById("Typepass");
        if (temp.type === "Password") {
          temp.type = "text";
        } else {
          temp.type = "Password";
        }
      }
    </script>
  </body>
</html>
```

2). Create a program that will select all the classes and loop over and whenever i click the button the alert should show :-

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
```

```

    <meta http-equiv="X-UA-Compatible" content="IE=edge" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>Document</title>
    <script
src="https://ajax.googleapis.com/ajax/libs/jquery/2.1.1/jquery.min.js"></scrip
t>
  </head>

  <body style="text-align: center">

    Username:<input id="uname" type="text" /><br />
    Password:<input id="pass" type="password" /><br />
    <button id="GFG_Button">Submit</button>

    <script>
      $("#pass").keypress(function (event) {
        if (event.keyCode === 13) {
          $("#GFG_Button").click();
        }
      });

      $("#GFG_Button").click(function () {
        alert("Button clicked");
      });
    </script>
  </body>
</html>

```

### 3). Create a responsive header using proper JavaScript :-

HTML code :-

```

<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <meta http-equiv="X-UA-Compatible" content="ie=edge">
  <link rel="stylesheet" href="style.css"/>
  <title> Responsive Navigation Bar </title>
</head>
<body>
  <nav>
    <div class="logo">
      <!-- <img decoding="async" src="" alt="Logo Image"> -->
    </div>

```

```

        <div class="hamburger">
            <div class="bars1"></div>
            <div class="bars2"></div>
            <div class="bars3"></div>
        </div>
        <ul class="nav-links">
            <li><a href="#">HTML & CSS</a></li>
            <li><a href="#">WordPress</a></li>
            <li><a href="#">Javascript</a></li>
            <li><a href="#">jQuery</a></li>
            <li><a href="#">Contact Us</a></li>
            <li><button class="login-button" href="#">Sign In</button></li>
        </ul>
    </nav>
    <script src="script.js"></script>
</body>
</html>

```

## CSS code :-

```

*{
    margin:0; padding:0;
    color:#f2f5f7;
    font-family: sans-serif;
    letter-spacing: 1px;
    font-weight: 300;
}

body{
    overflow: hidden;
}

nav{
    height: 6rem;
    width: 100vw;
    display: flex;
    position: fixed;
    z-index: 10;
    background-color: #053742;
    box-shadow: 0 3px 20px rgba(0,0,0,0.2);
}

/* Styling Navigation Links*/

.nav-links{
    width: 80vw;
    display: flex;

```

```

padding: 0 0.7vw;
justify-content: space-evenly;
align-items: center;
text-transform: uppercase;
list-style: none;
font-weight: 600;
}

.nav-links li a{
margin: 0 0.7vw;
text-decoration: none;
transition: all ease-in-out 350ms;
padding: 10px;
}

.nav-links li a:hover{
color:#000;
background-color: #fff;
padding: 10px;
border-radius: 50px;
}

.nav-links li{
position:relative;
}

.nav-links li a:hover::before{
width: 80%;
}

/*Buttons Styling*/

.login-button{
padding: 0.6rem 0.8rem;
margin-left: 2vw;
font-size:1rem;
cursor:pointer;
background-color: transparent;
border:1.5px solid #f2f5f7;
border-radius: 2em;
}

.login-button:hover{
color:#fff;
background-color: #dd5f24;
border:1.5px solid #dd5f24;
transition: all ease-in-out 350ms;
}

```

```
/*Navigation Icon Styling*/

.hamburger div{
  width: 30px;
  height: 3px;
  background: #f2f5f7;
  margin: 5px;
  transition: all 0.3s ease;
}

.hamburger{
  display: none;
}

/*Responsive Adding Media Queries*/

@media screen and (max-width: 800px){
  nav{
    position: fixed;
    z-index: 3;
  }
  .hamburger{
    display: block;
    position: absolute;
    cursor: pointer;
    right: 5%;
    top: 50%;
    transform: translate(-5%, -50%);
    z-index: 2;
    transition: all 0.7s ease;
  }
  .nav-links{
    background: #053742;
    position: fixed;
    opacity: 1;
    height: 100vh;
    width: 100%;
    flex-direction: column;
    clip-path: circle(50px at 90% -20%);
    -webkit-clip-path: circle(50px at 90% -10%);
    transition: all 1s ease-out;
    pointer-events: none;
  }
  .nav-links.open{
    clip-path: circle(1000px at 90% -10%);
    -webkit-clip-path: circle(1000px at 90% -10%);
    pointer-events: all;
  }
}
```

```

}
.nav-links li{
    opacity: 0;
}
.nav-links li:nth-child(1){
    transition: all 0.5s ease 0.2s;
}
.nav-links li:nth-child(2){
    transition: all 0.5s ease 0.4s;
}
.nav-links li:nth-child(3){
    transition: all 0.5s ease 0.6s;
}
.nav-links li:nth-child(4){
    transition: all 0.5s ease 0.7s;
}
.nav-links li:nth-child(5){
    transition: all 0.5s ease 0.8s;
}
.nav-links li:nth-child(6){
    transition: all 0.5s ease 0.9s;
    margin: 0;
}
.nav-links li:nth-child(7){
    transition: all 0.5s ease 1s;
    margin: 0;
}

li.fade{
    opacity: 1;
}

/* Navigation Bar Icon on Click*/

.toggle .bars1{
    transform: rotate(-45deg) translate(-5px, 6px);
}

.toggle .bars2{
    transition: all 0s ease;
    width: 0;
}

.toggle .bars3{
    transform: rotate(45deg) translate(-5px, -6px);
}
}

```

## JS code :-

```
const hamburger = document.querySelector(".hamburger");
const navLinks = document.querySelector(".nav-links");
const links = document.querySelectorAll(".nav-links li");

hamburger.addEventListener('click', ()=>{
    //Links
    navLinks.classList.toggle("open");
    links.forEach(link => {
        link.classList.toggle("fade");
    });

    //Animation
    hamburger.classList.toggle("toggle");
});
```

## 4). Create a form and validate using JavaScript :-

### HTML code :-

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta http-equiv="X-UA-Compatible" content="IE=edge" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>Document</title>
    <link rel="stylesheet" href="style2.css">
  </head>
  <body>
    <h1 style="text-align: center">REGISTRATION FORM</h1>
    <form name="RegForm" onsubmit="return Registration()" method="post">
      <p>Name: <input type="text" size="65" name="Name" /></p>

      <br />

      <p>Address: <input type="text" size="65" name="Address" /></p>

      <br />

      <p>E-mail Address: <input type="text" size="65" name="EMail" /></p>

      <br />

      <p>Password: <input type="text" size="65" name="Password" /></p>
```

```

<br />

<p>Telephone: <input type="text" size="65" name="Telephone" /></p>

<br />

<p>
  SELECT YOUR COURSE
  <select type="text" value="" name="Subject">
    <option>BTECH</option>
    <option>BBA</option>
    <option>BCA</option>
    <option>B.COM</option>
  </select>
</p>

<br />
<br />

<p>Comments: <textarea cols="55" name="Comment"> </textarea></p>

<p>
  <input type="submit" value="send" name="Submit" />
  <input type="reset" value="Reset" name="Reset" />
</p>
</form>
<script src="script2.js"></script>
</body>
</html>

```

## CSS code :-

```

div
{
  box-sizing: border-box;
  width: 100%;
  border: 100px solid black;
  float: left;
  align-content: center;
  align-items: center;
}

form
{
  margin: 0 auto;

```



```
width: 600px;
}
```

## JS code :-

```
function Registration() {
    var name =
        document.forms.RegForm.Name.value;
    var email =
        document.forms.RegForm.EMail.value;
    var phone =
        document.forms.RegForm.Telephone.value;
    var what =
        document.forms.RegForm.Subject.value;
    var password =
        document.forms.RegForm.Password.value;
    var address =
        document.forms.RegForm.Address.value;
    var regEmail=/^\w+([\.-]?\w+)*@\w+([\.-]?\w+)*(\.\w{2,3})+$/g;
//Javascript reGex for Email Validation.
    var
regPhone=/^\d{10}$/;                // Javascript reGex
for Phone Number validation.
    var regName = /\d+$/g;          //
Javascript reGex for Name validation

    if (name == "" || regName.test(name)) {
        window.alert("Please enter your name properly.");
        name.focus();
        return false;
    }

    if (address == "") {
        window.alert("Please enter your address.");
        address.focus();
        return false;
    }

    if (email == "" || !regEmail.test(email)) {
        window.alert("Please enter a valid e-mail address.");
        email.focus();
        return false;
    }

    if (password == "") {
```

```

        alert("Please enter your password");
        password.focus();
        return false;
    }

    if(password.length <6){
        alert("Password should be atleast 6 character long");
        password.focus();
        return false;
    }

    if (phone == "" || !regPhone.test(phone)) {
        alert("Please enter valid phone number.");
        phone.focus();
        return false;
    }

    if (what.selectedIndex == -1) {
        alert("Please enter your course.");
        what.focus();
        return false;
    }

    return true;
}

```

## 5). Create a model box using CSS and JS with three buttons :-

```

<!DOCTYPE html>
<html>
  <head>
    <meta name="viewport" content="width=device-width, initial-scale=1" />
    <style>
      body {
        font-family: Arial, Helvetica, sans-serif;
      }

      /* The Modal (background) */
      .modal {
        display: none; /* Hidden by default */
        position: fixed; /* Stay in place */
        z-index: 1; /* Sit on top */
        padding-top: 100px; /* Location of the box */
        left: 0;
        top: 0;
        width: 100%; /* Full width */
        height: 100%; /* Full height */
        overflow: auto; /* Enable scroll if needed */

```

```

        background-color: rgb(0, 0, 0); /* Fallback color */
        background-color: rgba(0, 0, 0, 0.4); /* Black w/ opacity */
    }

    /* Modal Content */
    .modal-content {
        background-color: #fefefe;
        margin: auto;
        padding: 20px;
        border: 1px solid #888;
        width: 80%;
    }

    /* The Close Button */
    .close {
        color: #aaaaaa;
        float: right;
        font-size: 28px;
        font-weight: bold;
    }

    .close:hover,
    .close:focus {
        color: #000;
        text-decoration: none;
        cursor: pointer;
    }
</style>
</head>
<body>
    <h2>Modal Example</h2>

    <!-- Trigger/Open The Modal -->
    <button id="myBtn">Open Modal</button>

    <!-- The Modal -->
    <div id="myModal" class="modal">
        <!-- Modal content -->
        <div class="modal-content">
            <span class="close">&times;</span>
            <p>Some text in the Modal..</p>
        </div>
    </div>

    <script>
        // Get the modal
        var modal = document.getElementById("myModal");

```

```

// Get the button that opens the modal
var btn = document.getElementById("myBtn");

// Get the <span> element that closes the modal
var span = document.getElementsByClassName("close")[0];

// When the user clicks the button, open the modal
btn.onclick = function () {
    modal.style.display = "block";
};

// When the user clicks on <span> (x), close the modal
span.onclick = function () {
    modal.style.display = "none";
};

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

```

## 6). Using external JS library to show slider :-

```

<!DOCTYPE html>
<html>
  <head>
    <meta charset="utf-8" />
    <title>My Slider</title>
    <style type="text/css">
      body {
        margin: 0;
        background: #e6e6e6;
      }
      .showSlide {
        display: none;
      }
      .showSlide img {
        width: 100%;
        height: 500px;
      }
      .slidercontainer {

```

```
    max-width: 1000px;
    position: relative;
    margin: auto;
}
.left,
.right {
    cursor: pointer;
    position: absolute;
    top: 50%;
    width: auto;
    padding: 16px;
    margin-top: -22px;
    color: white;
    font-weight: bold;
    font-size: 18px;
    transition: 0.6s ease;
    border-radius: 0 3px 3px 0;
}
.right {
    right: 0;
    border-radius: 3px 0 0 3px;
}
.left:hover,
.right:hover {
    background-color: rgba(115, 115, 115, 0.8);
}
.content {
    color: #eff5d4;
    font-size: 30px;
    padding: 8px 12px;
    position: absolute;
    top: 10px;
    width: 100%;
    text-align: center;
}
.active {
    background-color: #717171;
}
/* Fading animation */
.fade {
    -webkit-animation-name: fade;
    -webkit-animation-duration: 1.5s;
    animation-name: fade;
    animation-duration: 1.5s;
}
@-webkit-keyframes fade {
    from {
        opacity: 0.4;
    }
}
```

```

    }
    to {
        opacity: 1;
    }
}

@keyframes fade {
    from {
        opacity: 0.4;
    }
    to {
        opacity: 1;
    }
}
</style>
</head>
<body>
    <div class="slidercontainer">
        <div class="showSlide fade">
            
            <div class="content">Slide1 heading</div>
        </div>
        <div class="showSlide fade">
            
            <div class="content">Slide2 heading</div>
        </div>

        <div class="showSlide fade">
            
            <div class="content">Slide3 heading</div>
        </div>
        <div class="showSlide fade">
            
            <div class="content">Slide4 heading</div>
        </div>
        <!-- Navigation arrows -->
        <a class="left" onclick="nextSlide(-1)"><</a>
        <a class="right" onclick="nextSlide(1)">>>/a>
    </div>

    <script type="text/javascript">
        var slide_index = 1;
        displaySlides(slide_index);

        function nextSlide(n) {
            displaySlides((slide_index += n));
        }
    </script>

```

```
function currentSlide(n) {  
    displaySlides((slide_index = n));  
}  
  
function displaySlides(n) {  
    var i;  
    var slides = document.getElementsByClassName("showSlide");  
    if (n > slides.length) {  
        slide_index = 1;  
    }  
    if (n < 1) {  
        slide_index = slides.length;  
    }  
    for (i = 0; i < slides.length; i++) {  
        slides[i].style.display = "none";  
    }  
    slides[slide_index - 1].style.display = "block";  
}  
</script>  
</body>  
</html>
```