



Assignment 02

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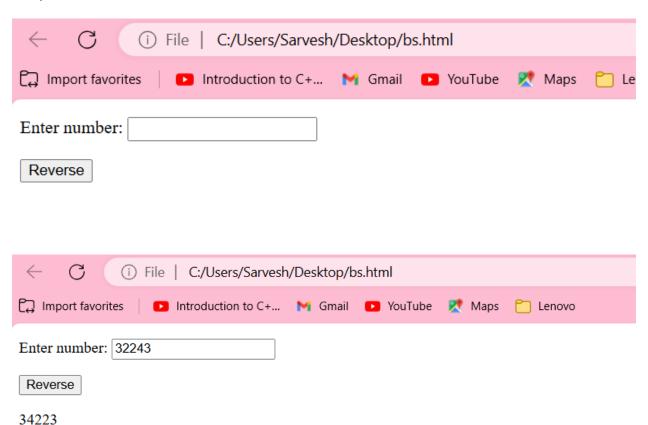
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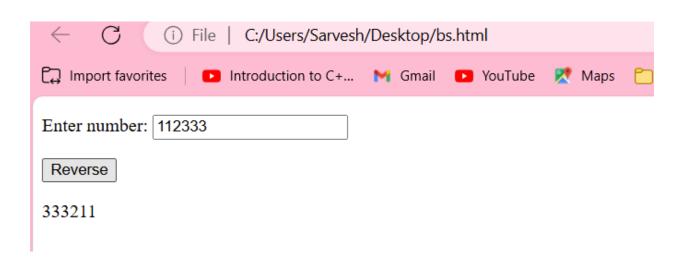
COURSE: Ethnus Mern Full Stack certification course

- · Write a JavaScript function that reverse a number.
- · Sample Data and output:

```
Example x = 32243;
Expected Output : 34223
```

```
<!DOCTYPE html>
<html>
   <head>
       <title>Task1</title>
       </head>
   <body>
       Enter number: &nbsp<input type="text" id="num">
       <button type="submit" onclick="cal()">Reverse </button>
       <script>
       function cal(){
       let a=document.getElementById("num").value;
       function reverseString(str) {
           return str.split("").reverse().join("");
       let b=reverseString(a);
       document.getElementById("output").innerHTML=b;
       </script>
</body>
</html>
```



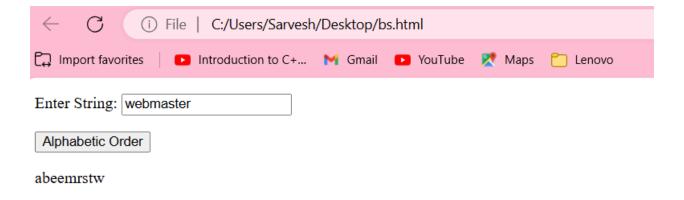


• Write a JavaScript function that returns a passed string with letters in alphabetical order.

```
Example string : 'webmaster'
Expected Output : 'abeemrstw'
```

Code:

```
<!DOCTYPE html>
<html>
   <head>
       <title>
           Task2
       </title>
</head>
   <body>
       Enter String: &nbsp<input type="text" id="num">
       <button type="submit" onclick="cal()">Alphabetic Order 
       <script>
       function cal(){
       let a=document.getElementById("num").value;
       function alpha(str) {
           var arr = str.split("");
           res = arr.sort().join("");
           return res;
         let b=alpha(a);
         document.getElementById("output").innerHTML=b;
   </script>
</body>
</html>
```

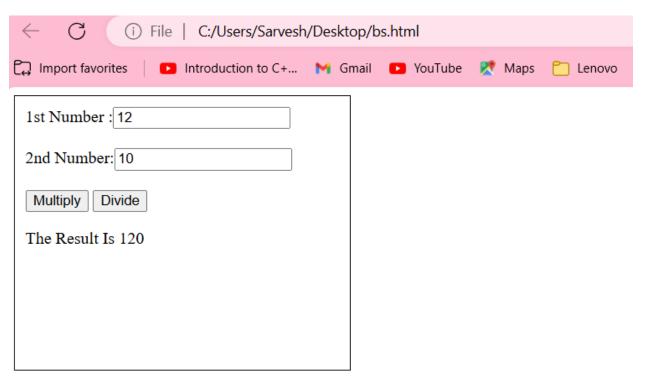


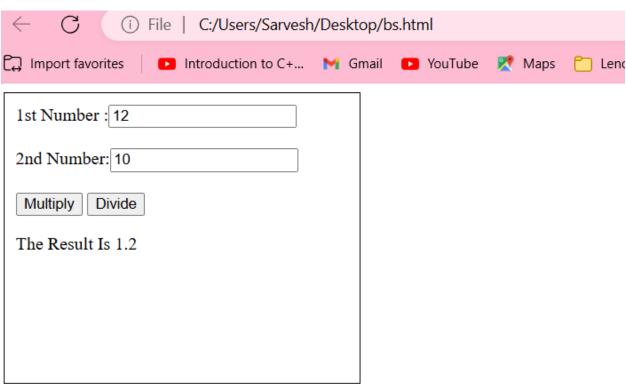
Q3.

- Write a JavaScript program to calculate multiplication and division of two numbers (input from user).
- Sample Form:

```
1st Number: 12
2nd Number: 10
Multiply Divide
The Result Is: 120
```

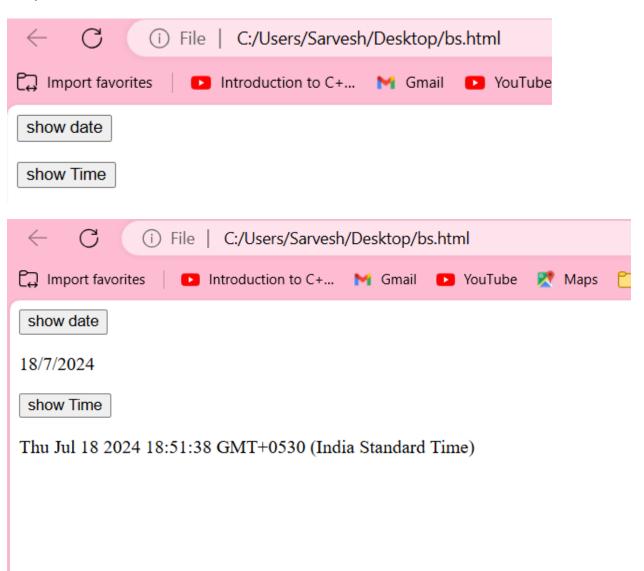
```
</style>
    </head>
    <body>
        <form class="box">
            1st Number :<input type="number" id="a" value><br><br>
            2nd Number:<input type="number" id="b" value><br><br>
            <button onclick="multiply()">Multiply</button>
            <button onclick="divide()">Divide</button>
            </form>
        <script>
            function multiply(){
                let a = document.getElementById("a").value;
               let b = document.getElementById("b").value;
                let c = a*b;
                document.getElementById("result").innerHTML=`The Result Is
${c}`;
                event.preventDefault()
            }
            function divide(){
                let a = document.getElementById("a").value;
                let b = document.getElementById("b").value;
               let c = a/b;
               document.getElementById("result").innerHTML=` The Result
Is ${c}`;
                event.preventDefault()
            }
        </script>
    </body>
    </html>
```





```
show date
7/March/2023
show Time
Tue Mar 07 2023 23:24:26 GMT+0530 (India Standard Time)
```

```
<!DOCTYPE html>
<html>
<head>
 <title>task 4</title>
</head>
<body>
 <button onclick="dates()">show date</button>
 <button onclick="times()">show Time</button>
 <script>
   function dates(){
   let date = new Date();
   let formattedDate = date.getDate() + "/" + (date.getMonth() + 1) + "/"
+ date.getFullYear();
   document.getElementById("dated").innerHTML = formattedDate;
   function times(){
   const time=new Date();
   document.getElementById("time").innerHTML = time;
   }
 </script>
</body>
 /html>
```



Q5.

Name:		Ti	nis field is required
Email:		A	valid email address is required
Website:		A	valid url is required
Message:			This field is required
		1	
	Submit		

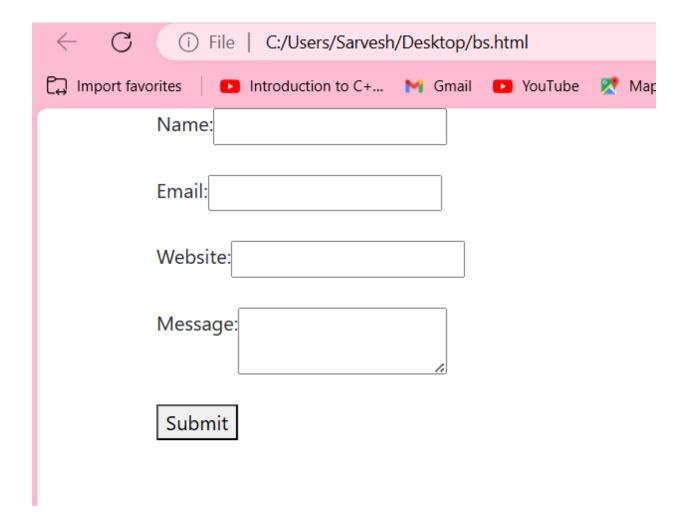
```
<!DOCTYPE html>
<html>
   <head>
        <title>task 5</title>
        link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/css/bootstra
p.min.css" rel="stylesheet">
   </head>
   <style>
        .container{
            display:flex;
           justify-items: center;
        }
        .input-control input:focus,
        .input-control textarea:focus{
            outline: 0;
        .input-control.error input,
        .input-control.error textarea {
```

```
border: 4px solid #ff3860;
    }
    .input-control.error .error {
        font-family: 'Times New Roman', Times, serif;
        padding-left: 10px;
        color: #ff3860;
        font-size: 15px;
        height: 13px;
</style>
<script>
    document.addEventListener('DOMContentLoaded', () => {
        const form = document.getElementById("form");
        const name = document.getElementById("name");
        const email= document.getElementById("email");
        const url = document.getElementById("website");
        const mess = document.getElementById("message");
    form.addEventListener('submit',e => {
        e.preventDefault();
       validateInputs();
    });
const setError = (element, message) => {
    const inputControl = element.parentElement;
    const errorDisplay = inputControl.querySelector('.error');
    errorDisplay.innerText = message;
    inputControl.classList.add('error');
   inputControl.classList.remove('success');
}
```

```
const setSuccess = element => {
       const inputControl = element.parentElement;
       const errorDisplay = inputControl.querySelector('.error');
       errorDisplay.innerText = '';
       inputControl.classList.add('success');
       inputControl.classList.remove('error');
   }
       const isValidEmail = email => {
       const re =
/^(([^<>()[\]\\.,;:\s@"]+(\.[^<>()[\]\\.,;:\s@"]+)*)|(".+"))@((\[[0-
9]+\.)+[a-zA-Z]{2,}))$/;
       return re.test(String(email).toLowerCase());
   }
   const validateInputs = () =>{
       const namevalue = name.value.trim();
       const mailvalue = email.value.trim();
       const urlvalue = url.value.trim();
       const messvalue = mess.value.trim();
       if(namevalue==='')
           setError(name, 'This field is required');
       else
           setSuccess(name);
       if(mailvalue==='')
           setError(email, 'A valid email address is required');
       else if(!isValidEmail(mailvalue))
```

```
setError(email, 'Provide a valid email address');
    else
        setSuccess(email);
    if(urlvalue==='')
        setError(url,'A valid url is required');
    else
        setSuccess(url);
    if (messvalue==='')
        setError(mess,'This field is required')
    else{
    setSuccess(mess);
}
});
</script>
<body>
<div class="container">
    <form class="form justify-content-center" id="form" >
        <div class="input-control d-flex flex-row" >
            <label>Name:</label>
            <input type="text" id="name">
            <div class="error"></div>
        </div><br>
        <div class="input-control d-flex flex-row" >
```

```
<label>Email:</label>
               <input type="text" id="email" >
               <div class="error"></div>
           </div><br>
           <div class="input-control d-flex flex-row" >
               <label>Website:</label>
               <input type="text" id="website" >
               <div class="error"></div>
           </div><br>
           <div class="input-control d-flex flex-row" >
               <label>Message:</label>
               <textarea type="text" id="message" ></textarea>
               <div class="error"></div>
           </div><br>
           <button type="submit">Submit</button>
       </form>
   </div>
   </body>
</html>
```



Q6.

å	Username	
<u></u>	Password	
	Lo	g in

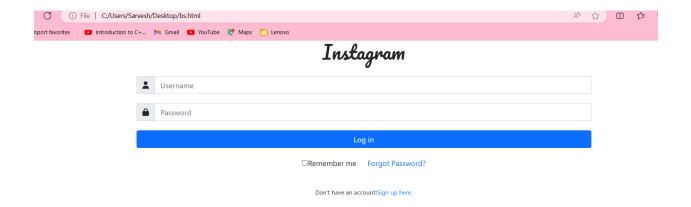
Don't have an account! Sign up here.

```
Ink
href='https://fonts.googleapis.com/css2?family=Pacifico&display=swap
 rel="stylesheet">
    <script src="https://kit.fontawesome.com/eb057bb5a5.js"</pre>
crossorigin="anonymous"></script>
    <script>
        document.addEventListener('DOMContentLoaded', () => {
            const form = document.getElementById("form");
            const username = document.getElementById("Username");
            const password = document.getElementById("Password");
            form.addEventListener('submit', e => {
                e.preventDefault();
                validateInputs();
            });
            const setError = (element, message) => {
                const inputControl = element.parentElement;
                const errorDisplay =
inputControl.querySelector('.error');
                errorDisplay.innerText = message;
                inputControl.classList.add('error');
                inputControl.classList.remove('success');
            }
            const setSuccess = element => {
                const inputControl = element.parentElement;
                const errorDisplay =
inputControl.querySelector('.error');
                errorDisplay.innerText = '';
                inputControl.classList.add('success');
                inputControl.classList.remove('error');
            }
            const validateInputs = () => {
                const usernameValue = username.value.trim();
                const passwordValue = password.value.trim();
```

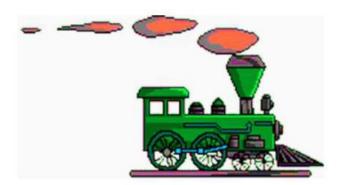
```
if (usernameValue === '') {
                    setError(username, 'Give your username');
                } else {
                    setSuccess(username);
                }
                if (passwordValue === '') {
                    setError(password, 'This field is required');
                } else {
                    setSuccess(password);
                }
            }
        });
    </script>
</head>
<style>
    .container .c {
        display: flex;
        justify-content: center;
        margin-top: 10%;
        padding-top: 50px;
        background-color: #efefef;
       flex-direction: column;
       width: 400px;
        box-shadow: 0 2px 5px;
        border: 1px solid gray;
   }
    .container a {
        text-decoration: none;
    .subtitle {
        display: flex;
        justify-content: center;
        padding-top: 20px;
        font-size: small;
   }
    .container h1 {
        font-family: 'Pacifico', cursive;
```

```
display: flex;
        justify-content: center;
        padding-bottom: 20px;
    .container .form {
        display: flex;
        justify-content: center;
        flex-direction: column;
    }
    .form-group {
        padding-bottom: 20px;
        display: flex;
        justify-content: center;
    }
    .btn {
        width: 75%;
    }
    .error {
        color: red;
        font-size: 0.8em;
        padding-top: 5px;
    }
    .success {
        border-color: green;
    }
</style>
<body>
    <div class="container c">
        <h1 class="fw-lighter">Instagram</h1>
        <form id="form" class="form">
            <div class="form-group">
                 <div class="col-9">
                     <div class="input-group">
                         <span class="input-group-text"><i class="fa-</pre>
solid fa-user"></i></span>
                         <input type="text" class="form-control"</pre>
id="Username" placeholder="Username">
                         <div class="error"></div>
                     </div>
```

```
</div>
            </div>
            <div class="form-group">
                <div class="col-9">
                     <div class="input-group">
                         <span class="input-group-text"><i class="fa-</pre>
solid fa-lock"></i></span>
                         <input type="password" class="form-control"</pre>
id="Password" placeholder="Password">
                         <div class="error"></div>
                     </div>
                </div>
            </div>
            <div class="form-group">
                <button class="btn btn-primary col-10">Log
in</button>
            </div>
            <div class="form-group">
                <span class="pe-4"><input type="checkbox"</pre>
class="input-control">Remember me</span>
                <span><a href="#">Forgot Password?</a></span>
            </div>
        </form>
        <div class="subtitle">
            <span>Don't have an account!<a href="#">Sign up
here.</a></span>
        </div>
    </div>
</body>
</html>
```



Q7.

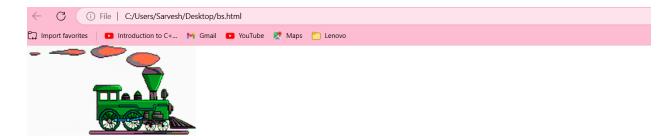


Click the following buttons to handle animation



```
<script src="https://kit.fontawesome.com/eb057bb5a5.js"</pre>
crossorigin="anonymous"></script>
    <style>
        .container {
            display: flex;
            padding-top: 50px;
            font-family: 'Times New Roman', Times, serif;
            flex-direction: column;
            width: 600px;
            color: blue;
        }
        .train {
            position: relative;
        .animate {
            animation: animation1 5s infinite;
        }
        @keyframes animation1 {
            from { left: 0%; }
            to { left: 100%; }
    </style>
    <script>
        function start() {
document.getElementById('train').classList.add('animate');
        function stop() {
document.getElementById('train').classList.remove('animate');
    </script>
</head>
<body>
   <div class="container-block">
```

```
<img id="train"</pre>
src="https://www.javatpoint.com/oprweb/train1.png" alt="train"
class="train">
        <div class="container">
            <h3 style="font-weight: bold;">Click the following
buttons to handle animation</h3>
            <div class="d-flex flex-col justify-content-center">
                <button class="m-1 d-flex justify-content-center"</pre>
onclick="start()">Start</button>
                <button class="m-1 d-flex justify-content-center"</pre>
onclick="stop()">Stop</button>
            </div>
        </div>
    </div>
</body>
</html>
```



Click the following buttons to handle animation

Start Stop

Q8.



```
font-family: Arial, sans-serif;
        display: flex;
        justify-content: center;
        align-items: center;
        height: 100vh;
        background-color: #ffffff;
      .container {
        background: linear-gradient(to bottom right, #ffcccc,
#ffff99, #cc99ff);
        padding: 20px;
        border-radius: 10px;
        box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
        width: 90%;
        max-width: 600px;
      .register-btn {
        background-color: red;
        color: white;
        padding: 10px 20px;
        border: none;
        cursor: pointer;
        border-radius: 20px;
        display: block;
        margin: 10px auto;
        font-size: 16px;
      .register-btn:hover {
        background-color: darkred;
      table {
        width: 100%;
      table td {
        padding: 10px;
      .error {
        color: red;
        font-size: 12px;
```

```
margin-left: 10px;
      font-weight: bold;
    }
   </style>
 </head>
 <body>
   <div class="container">
    <h2 style="text-align: center; color: blue">Registration
form</h2>
    <form id="registrationForm">
      <input type="text" name="firstname" style="width: 80%"</pre>
/>
           <span class="error" id="firstnameError"></span>
         >
           <input type="text" name="lastname" style="width: 80%"</pre>
           <span class="error" id="lastnameError"></span>
         <input type="email" name="email" style="width: 80%" />
           <span class="error" id="emailError"></span>
         <input type="password" name="password" style="width:</pre>
```

```
<span class="error" id="passwordError"></span>
         <b>Re-enter Password</b>
           <input type="password" name="repassword" style="width:</pre>
80%" />
           <span class="error" id="repasswordError"></span>
         <input type="radio" name="gender" value="male" /> Male
           <input type="radio" name="gender" value="female" />
Female
         >
           <input type="number" name="age" style="width: 80%" />
           <span class="error" id="ageError"></span>
         <b>Phone Number</b>
         >
           <input type="tel" name="phone" style="width: 80%" />
           <span class="error" id="phoneError"></span>
         <textarea name="address" rows="6" style="width:</pre>
80%"></textarea>
           <span class="error" id="addressError"></span>
```

```
<input type="text" name="state" style="width: 80%" />
            <span class="error" id="stateError"></span>
          <b>Country</b>
          <select name="country">
              <option value="">Choose your country</option>
              <option value="India">India</option>
              <option value="USA">USA</option>
              <option value="Russia">Russia</option>
              <option value="China">China</option>
            </select>
          <b>Languages known</b>
          <input type="checkbox" name="language" value="english"</pre>
/> English
            <input type="checkbox" name="language" value="kannada"</pre>
/> Kannada
            <input type="checkbox" name="language" value="hindi"</pre>
/> Hindi
            <input type="checkbox" name="language" value="telugu"</pre>
/> Telugu
            <span class="error" id="languageError"></span>
          <input type="checkbox" name="declare" /> Hereby I
declare all the
```

```
given details are true
          Log in to
           <a href="https://www.ethnus.com"</pre>
target=" blank">Ethnus</a>
           website
          <button type="submit" class="register-</pre>
btn">Register
          </form>
   </div>
   <script>
     document
       .getElementById("registrationForm")
      .addEventListener("submit", function (event) {
        event.preventDefault();
        let isValid = true;
        const form = event.target;
        const errorElements = form.querySelectorAll(".error");
        errorElements.forEach(
          (errorElement) => (errorElement.textContent = "")
        );
        form.querySelectorAll("input, textarea,
select").forEach((input) => {
          if (!input.value.trim()) {
           const errorElement = document.getElementById(
             input.name + "Error"
```

```
if (errorElement) {
        errorElement.textContent = "POOR";
        }
        isValid = false;
     }
     });
     if (isValid) {
        form.submit();
     }
     });
     </script>
     </body>
</html>
```

uΤι	ube 🏋 Maps 📋 Lenovo				
	First Name				
	Last Name				
	Email				
	Password				
	Re-enter Password				
	Gender	○ Male ○ Female			
	Age				
	Phone Number				
	Address	A.			
	State				
	Country	Choose your country ➤			
	Languages known	□ English □ Kannada □ Hindi □ Telugu			
□ Hereby I declare all the given details are true					
		Log in to Ethnus website			
		Register			

