

# ETHNUS -MERN FULL STACK INTERNSHIP

NAME: K. KHYATHI

REGNO: 23BCE20199

## ASSIGNMENT- 12

### 1. CODE:

```
C: > Users > KYATHI.K > example9.html > html
1  <!DOCTYPE html>
2  <html>
3  <head>
4  <title>Prime Number Generator</title>
5  <style>
6      body {
7          font-family: Arial, sans-serif;
8          background-color: #f4f4f4;
9          display: flex;
10         justify-content: center;
11         align-items: center;
12         min-height: 100vh;
13         margin: 0;
14     }
15     .container {
16         background-color: #fff;
17         padding: 30px;
18         border-radius: 8px;
19         box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
20         width: 400px;
21     }
22     h2 {
23         text-align: center;
24         margin-bottom: 20px;
25         color: #333;
26     }
27     table {
28         width: 100%;
29         border-collapse: collapse;
30         margin-bottom: 20px;
31     }
32     table td {
33         padding: 10px;
34         border: 1px solid #ddd;
35     }
36     table td:first-child {
37         width: 100px;
```

```

38     font-weight: bold;
39     color: #555;
40 }
41 input[type="number"],
42 textarea {
43     width: calc(100% - 20px);
44     padding: 8px;
45     border: 1px solid #ccc;
46     border-radius: 4px;
47     box-sizing: border-box;
48 }
49 textarea {
50     resize: vertical;
51     min-height: 100px;
52 }
53 button {
54     display: block;
55     width: 120px;
56     padding: 10px;
57     background-color: #007bff;
58     color: white;
59     border: none;
60     border-radius: 4px;
61     cursor: pointer;
62     font-size: 16px;
63     margin-top: 20px;
64     margin-left: auto;
65     margin-right: auto;
66 }
67 button:hover {
68     background-color: #0056b3;
69 }
70 </style>

```

```

71 </head>
72 <body>
73 <div class="container">
74     <h2>Prime Number Generator</h2>
75     <table>
76         <tr>
77             <td>Start</td>
78             <td><input type="number" id="startNum" value="1"></td>

```

```

79     </tr>
80     <tr>
81         <td>End</td>
82         <td><input type="number" id="endNum" value="100"></td>
83     </tr>
84     <tr>
85         <td>Prime Number</td>
86         <td><textarea id="primeNumbers" readonly></textarea></td>
87     </tr>
88 </table>
89 <button onclick="generatePrimes()">Generate</button>
90 </div>
91 <script>
92     function isPrime(num) {
93         if (num <= 1) return false;
94         for (let i = 2; i <= Math.sqrt(num); i++) {
95             if (num % i === 0) return false;
96         }
97         return true;
98     }
99     function generatePrimes() {
100         const start = parseInt(document.getElementById('startNum').value);
101         const end = parseInt(document.getElementById('endNum').value);
102         const primeNumbersOutput = document.getElementById('primeNumbers');
103         let primes = [];
104
105         if (isNaN(start) || isNaN(end)) {
106             alert("Please enter valid numbers for Start and End.");
107             return;
108         }
109         if (start > end) {
110             alert("Start number cannot be greater than End number.");

```

```

111         return;
112     }
113     for (let i = start; i <= end; i++) {
114         if (isPrime(i)) {
115             primes.push(i);
116         }
117     }
118     primeNumbersOutput.value = primes.join(', ');

```

```
119     }
120     window.onload = generatePrimes;
121 </script>
122 </body>
123 </html>
```

**OUTPUT:**

## Prime Number Generator

<b>Start</b>	<input type="text" value="1"/>
<b>End</b>	<input type="text" value="100"/>
<b>Prime Number</b>	<div>2, 3, 5, 7, 11, 13, 17, 19, 23, 29, 31, 37, 41, 43, 47, 53, 59, 61, 67, 71, 73, 79, 83, 89, 97</div>

Generate

## 2. CODE:

```
1  <!DOCTYPE html>
2  <html>
3  <head>
4  <title>Mobile Number Validation</title>
5  <style>
6      body {
7          font-family: Arial, sans-serif;
8          background-color: #f4f4f4;
9          display: flex;
10         flex-direction: column;
11         justify-content: center;
12         align-items: center;
13         min-height: 100vh;
14         margin: 0;
15     }
16     .container {
17         background-color: #fff;
18         padding: 30px;
19         border-radius: 8px;
20         box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
21         text-align: center;
22     }
23     h2 {
24         margin-bottom: 30px;
25         color: #333;
26     }
27     .input-group {
28         margin-bottom: 20px;
29     }
30     .input-group label {
31         font-size: 1.1em;
32         color: #555;
33         margin-right: 10px;
34     }
35     .input-group input[type="text"] {
36         padding: 10px;
37         border: 1px solid #ccc;
```

```
38         border-radius: 4px;
39         font-size: 1em;
40         width: 200px;
41         text-align: center;
42     }
```

```

43     button {
44         padding: 10px 25px;
45         background-color: #28a745;
46         color: white;
47         border: none;
48         border-radius: 4px;
49         cursor: pointer;
50         font-size: 1.1em;
51     }
52     button:hover {
53         background-color: #218838;
54     }
55     .validation-message {
56         margin-top: 20px;
57         font-weight: bold;
58     }
59     .success {
60         color: green;
61     }
62     .error {
63         color: red;
64     }
65 </style>
66 </head>
67 <body>
68 <div class="container">
69     <h2>Mobile Number Validation using JavaScript</h2>
70     <div class="input-group">
71         <label for="mobileNumber">Enter Mobile Number</label>
72         <input type="text" id="mobileNumber" placeholder="Enter 10 Digit Mobile Num" maxlength="10">
73     </div>
74     <button onclick="validateMobileNumber()">Validate</button>
75     <div id="validationResult" class="validation-message"></div>
76 </div>
77 <script>
78     function validateMobileNumber() {
79         const mobileNumberInput = document.getElementById('mobileNumber');
80         const mobileNumber = mobileNumberInput.value.trim();
81         const validationResult = document.getElementById('validationResult');
82
83         // Regular expression for a 10-digit number
84         const mobileRegex = /^[0-9]{10}$/;
85
86         if (mobileRegex.test(mobileNumber)) {
87             validationResult.textContent = "Valid Mobile Number!";
88             validationResult.className = "validation-message success";
89         } else {
90             validationResult.textContent = "Invalid Mobile Number. Please enter a 10-digit number.";
91             validationResult.className = "validation-message error";
92         }
93     }
94 </script>
95 </body>
96 </html>

```

## OUTPUT:

# Mobile Number Validation using JavaScript

Enter Mobile Number

8478210017

Validate

Valid Mobile Number!

## 3. CODE:

```
1  <!DOCTYPE html>
2  <html>
3  <head>
4  <title>Instagram Login</title>
5  <style>
6  body {
7      font-family: -apple-system, BlinkMacSystemFont, "Segoe UI", Roboto, Helvetica, Arial, sans-serif;
8      background-color: #fafafa;
9      display: flex;
10     justify-content: center;
11     align-items: center;
12     min-height: 100vh;
13     margin: 0;
14 }
15 .login-container {
16     background-color: #fff;
17     border: 1px solid #dbdbdb;
18     border-radius: 3px;
19     padding: 40px;
20     width: 350px;
21     text-align: center;
22     box-sizing: border-box;
23 }
24 .logo {
25     font-family: 'Billabong', cursive;
26     font-size: 40px;
27     margin-bottom: 30px;
28     color: #262626;
29 }
```

```
29 }
30 .input-group {
31   margin-bottom: 6px;
32 }
33 .input-group input {
34   width: 100%;
35   padding: 12px;
36   border: 1px solid #dbdbdb;
37   border-radius: 3px;
38   box-sizing: border-box;
39   font-size: 14px;
40   background-color: #fafafa;
41 }
42 .input-group input::placeholder {
43   color: #8e8e8e;
44 }
45 .login-button {
46   width: 100%;
47   padding: 10px;
48   background-color: #0095f6;
49   color: white;
50   border: none;
51   border-radius: 4px;
52   cursor: pointer;
53   font-size: 14px;
54   font-weight: 600;
55   margin-top: 15px;
56 }
57 .login-button:hover {
58   background-color: #007bff;
59 }
60 .options {
61   display: flex;
```

```
62   justify-content: space-between;
63   align-items: center;
64   margin-top: 15px;
65   font-size: 12px;
66   color: #8e8e8e;
67 }
```

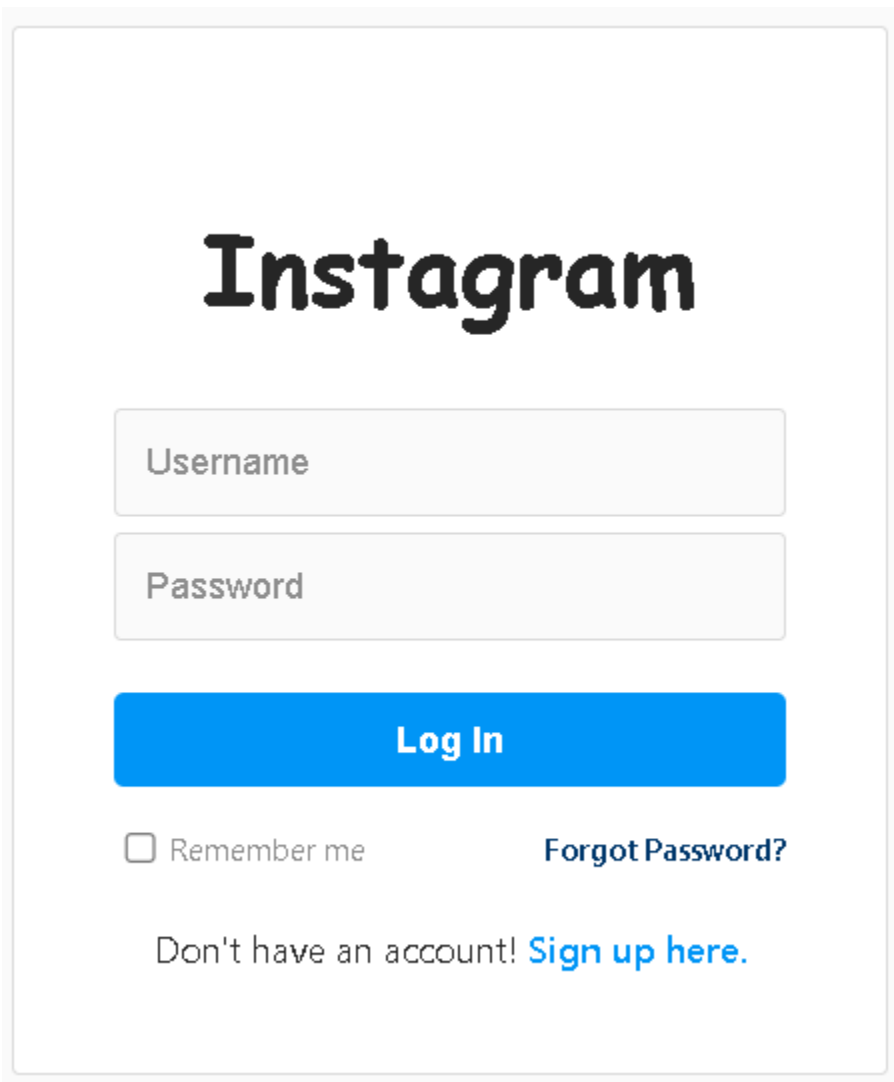


```

68 .options label {
69     display: flex;
70     align-items: center;
71     cursor: pointer;
72 }
73 .options input[type="checkbox"] {
74     margin-right: 5px;
75 }
76 .options a {
77     color: #00376b;
78     text-decoration: none;
79     font-weight: 600;
80 }
81 .signup-link {
82     margin-top: 20px;
83     font-size: 14px;
84     color: #262626;
85 }
86 .signup-link a {
87     color: #0095f6;
88     text-decoration: none;
89     font-weight: 600;
90 }
91 @import url('https://fonts.googleapis.com/css2?family=Dancing+Script:wght@700&display=swap');
92 .logo {
93     font-family: 'Dancing Script', cursive;
94 }
95 </style>
96 </head>
97 <body>
98 <div class="login-container">
99     <h1 class="logo">Instagram</h1>
100     <form>
101         <div class="input-group">
102             <input type="text" placeholder="Username" aria-label="Username">
103         </div>
104         <div class="input-group">
105             <input type="password" placeholder="Password" aria-label="Password">
106         </div>
107         <button type="submit" class="login-button">Log In</button>
108     </form>
109     <div class="options">
110         <label>
111             <input type="checkbox"> Remember me
112         </label>
113         <a href="#">Forgot Password?</a>
114     </div>
115     <div class="signup-link">
116         Don't have an account! <a href="#">Sign up here.</a>
117     </div>
118 </div>
119 </body>
120 </html>

```

## OUTPUT:

A mockup of the Instagram login page. It features a large, bold, black 'Instagram' logo at the top. Below the logo are two light gray input fields with rounded corners. The first field is labeled 'Username' and the second is labeled 'Password'. Below these fields is a bright blue rectangular button with the text 'Log In' in white. Under the button, there is a checkbox labeled 'Remember me' and a link 'Forgot Password?' in a dark gray font. At the bottom, there is a line of text: 'Don't have an account! [Sign up here.](#)' where the link is in blue.

## 4. CODE:

```
1  <!DOCTYPE html>
2  <html>
3  <head>
4  <title>Age Calculator</title>
5  <style>
6    body {
7      font-family: Arial, sans-serif;
8      background-color: #5e3b8a;
9      display: flex;
```

```
10 justify-content: center;
11 align-items: center;
12 min-height: 100vh;
13 margin: 0;
14 }
15 .calculator-container {
16   background-color: #ffffff;
17   padding: 40px;
18   border-radius: 10px;
19   box-shadow: 0 4px 20px rgba(0, 0, 0, 0.2);
20   text-align: center;
21 }
22 h2 {
23   color: #5e3b8a;
24   margin-bottom: 30px;
25   font-size: 2em;
26   letter-spacing: 1px;
27 }
28 .input-section {
29   display: flex;
30   align-items: center;
31   justify-content: center;
32   margin-bottom: 40px;
33 }
34 .input-section input[type="date"] {
35   padding: 12px;
36   border: 1px solid #ccc;
37   border-radius: 5px;
38   font-size: 1.1em;
39   width: 200px;
40   text-align: center;
41   margin-right: 15px;
42 }
```

```
43 .input-section button {
44   padding: 12px 25px;
45   background-color: #8a2be2;
46   color: white;
47   border: none;
48   border-radius: 5px;
49   cursor: pointer;
```

```

50     font-size: 1.1em;
51     transition: background-color 0.3s ease;
52 }
53 .input-section button:hover {
54     background-color: #7b1edc;
55 }
56 .result-section {
57     display: flex;
58     justify-content: space-around;
59     gap: 20px;
60 }
61 .result-box {
62     background-color: #f0f0f0;
63     border-radius: 8px;
64     padding: 20px 30px;
65     min-width: 100px;
66     box-shadow: 0 2px 10px rgba(0, 0, 0, 0.1);
67 }
68 .result-number {
69     font-size: 3em;
70     font-weight: bold;
71     color: #5e3b8a;
72     margin-bottom: 5px;
73 }
74 .result-label {
75     font-size: 1em;
76     color: #666;
77     text-transform: uppercase;
78 }
79 </style>
80 </head>
81 <body>
82 <div class="calculator-container">

```

```

83     <h2>AGE CALCULATOR</h2>
84     <div class="input-section">
85         <input type="date" id="dobInput">
86         <button onclick="calculateAge()">Calculator</button>
87     </div>
88     <div class="result-section">
89         <div class="result-box">
90             <div id="years" class="result-number">00</div>

```

```

91     <div class="result-label">YEAR</div>
92 </div>
93 <div class="result-box">
94     <div id="months" class="result-number">00</div>
95     <div class="result-label">MONTH</div>
96 </div>
97 <div class="result-box">
98     <div id="days" class="result-number">00</div>
99     <div class="result-label">DAY</div>
100 </div>
101 </div>
102 </div>
103 <script>
104     function calculateAge() {
105         const dobInput = document.getElementById('dobInput').value;
106         const dob = new Date(dobInput);
107         const today = new Date();
108         if (isNaN(dob.getTime())) {
109             alert("Please enter a valid date of birth.");
110             return;
111         }
112         let years = today.getFullYear() - dob.getFullYear();
113         let months = today.getMonth() - dob.getMonth();
114         let days = today.getDate() - dob.getDate();
115         if (days < 0) {
116             months--;
117             days += new Date(today.getFullYear(), today.getMonth(), 0).getDate();
118         }
119         if (months < 0) {
120             years--;
121             months += 12;
122         }
123         document.getElementById('years').textContent = String(years).padStart(2, '0');
124         document.getElementById('months').textContent = String(months).padStart(2, '0');
125         document.getElementById('days').textContent = String(days).padStart(2, '0');
126     }
127 </script>
128 </body>
129 </html>

```

## OUTPUT:

# AGE CALCULATOR

05 / 02 / 2006

📅

Calculator

19  
YEAR

01  
MONTH

04  
DAY