

LAB 6

Q: CREATE A WEB PAGE TO CHECK WHETHER A NUMBER GIVEN AS INPUT IS PRIME OR NOT.

A:

Index.html

```
<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8">

  <meta name="viewport" content="width=device-width, initial-scale=1.0">

  <title>Prime Number Checker</title>

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

</head>

<body>

  <div class="container">

    <h1>Prime Number Checker</h1>

    <h2>Ritabrata Chakraborty</h2>

    <div class="input-group">

      <input type="number" id="numberInput" placeholder="Enter a number">

      <button onclick="checkPrime()">Check</button>

    </div>

    <p id="result"></p>

  </div>

  <script src="logic.js"></script>

</body>

</html>
```

Style.css

```
body, html {  
    height: 100%;  
    margin: 0;  
    font-family: Arial, sans-serif;  
    display: flex;  
    justify-content: center;  
    align-items: center;  
    background: url('bg.jpg') no-repeat center center fixed;  
    background-size: cover;  
}
```

```
.container {  
    text-align: center;  
    width: 100%;  
    max-width: 400px;  
    padding: 20px;  
    background-color: rgba(255, 255, 255, 0.8);  
    border-radius: 8px;  
    box-shadow: 0 4px 8px rgba(0,0,0,0.2);  
}
```

```
.input-group {  
    margin-bottom: 15px;  
}
```

```
input[type="number"] {  
    padding: 10px;  
    margin-top: 10px;  
    border: none;
```

```
border-radius: 4px;
width: 70%;
display: inline-block;
}
```

```
button {
padding: 10px 20px;
margin-top: 10px;
border: none;
border-radius: 4px;
background-color: #007bff;
color: white;
cursor: pointer;
display: inline-block;
width: 25%;
}
```

```
button:hover {
background-color: #0056b3;
}
```

```
p#result {
margin-top: 20px;
font-size: 1.2rem;
color: #333;
}
```

Script.js

```
function checkPrime() {
```

```
let num = document.getElementById('numberInput').value;
let result = document.getElementById('result');
num = parseInt(num);

if (isNaN(num) || num < 2) {
    result.textContent = 'Please enter a valid number (greater than 1).';
    return;
}

for (let i = 2, s = Math.sqrt(num); i <= s; i++) {
    if (num % i === 0) {
        result.textContent = num + ' is not a prime number!';
        return;
    }
}

result.textContent = num + ' is a prime number!';
}
```