**Lab 3**

**Theory**

JavaScript (JS) is the most popular lightweight, interpreted compiled programming language. It can be used for both Client-side as well as Server-side developments. It is also known as a scripting language for web pages. This free JavaScript Tutorial is designed to help both beginners and experienced professionals master the fundamentals of JavaScript and unleash their creativity to build powerful web applications. From basic syntax and data types to advanced topics such as object-oriented programming and DOM manipulation. JavaScript is a scripting language that can run on web browsers and servers. It can manipulate web pages, interact with users, communicate with databases, and perform various tasks. JavaScript is based on objects and supports dynamic typing, control structures, functions, and operators. JavaScript is not related to Java, but it can work well with other technologies such as HTML and CSS.

**Task 1:**

**Create a user registration form having fields user name, email, phone, password and validate the form.**

**\*username required**

**\*email required, proper format**

**\*phone optional, number format**

**\*password required, min 8 characters**

**HTML**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8" />

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

<title>Form Validation</title>

</head>

<body>

<form action="" onsubmit="return formSubmit()">

<label for="username">Username:</label>

<input type="text" id="username" /><br /><br />

<label for="email">Email:</label>

<input type="text" id="email" /><br /><br />

<label for="phonenumber">Phone:</label>

<input type="text" id="phonenumber" /><br />

<br />

<label for="password">Password:</label>

<input type="password" id="password" /><br /><br />

<input type="submit" value="Register" />

</form>

<script>

function formSubmit() {

var username = document.getElementById("username").value;

var email = document.getElementById("email").value;

var phone = document.getElementById("phonenumber").value;

var password = document.getElementById("password").value;

if (

username === "" ||

email === "" ||

phone === "" ||

password === ""

) {

alert("Please fill up all data");

return false;

}

var emailRegex = /^[^\s@]+@[^\s@]+\.[^\s@]+$/;

if (!emailRegex.test(email)) {

alert("Invalid email format");

return false;

}

var phoneRegex = /^\d\*$/;

if (!phoneRegex.test(phone)) {

alert("Invalid phone number format");

return false;

}

if (password.length < 8) {

alert("Password must be 8 characters long");

return false;

}

return true;

}

</script>

</body>

</html>

**Output**

