Exp 3: Form Validation using Java Script

AIM:

Is to validate a form after submission using java script

PROCEDURE:

Step 1: Access the Form and Its Input Fields

- Get the form element using getElementById or querySelector.
- Get all input fields that need validation (e.g., name, email, password).

Step 2: Add an Event Listener for Submit

- Use form.addEventListener("submit", function(e) {...}).
- Prevent the default submission using e.preventDefault().

Step 3: Initialize a Validation Flag

- Set a flag isValid = true.
- Use it to track if all fields pass the validation rules.

Step 4: Check Each Input Field

- For each field:
 - o Trim the input and check if it is empty.
 - o If a field has a specific rule (e.g., email pattern, password length), validate it.
 - o If invalid, show an error message and set is Valid = false.

Step 5: Show Success Message if Valid

- After all validations, check if isValid === true.
- If valid, display a message like "Registration Successful!".

PROGRAM:

Index.html

```
<script src="script.js"></script>
<body>
        <div class="container">
            <h2>Form</h2>
            <br>
            <form id="myForm" method="POST" onsubmit="return validate()">
                 <label for="first_name">First Name</label>
                 <input type="text" id="first name" name="first name"</pre>
placeholder="First Name" required>
                <label for="last name">Last Name</label>
                 <input type="text" id="last_name" name="last_name"</pre>
placeholder="Last Name" required>
                <label for="phnumber">Phone Number</label>
                 <input type="tel" id="phnumber" name="phnumber"</pre>
placeholder="Phone Number" required>
                <label for="email">Email</label>
                 <input type="email" id="email" name="email"</pre>
placeholder="eg@domain.com" required>
                <label for="pass">Password</label>
                <input type="password" id="pass" name="pass"</pre>
placeholder="Password" required>
                <label for="address">Address</label>
                <textarea name="address" id="address"></textarea>
                 <button type="submit">Submit</button>
            </form>
        </div>
    </center>
</body>
</html>
```

Style.css

```
* {
    margin: 0;
    padding: 0;
    box-sizing: border-box;
}
body {
    background-color: #f7d5d5;
```

```
.container {
    display: flex;
    flex-direction: column;
    justify-content: center;
    align-items: center;
    background-color: aquamarine;
   width: 30%;
   margin: 50px auto;
   padding: 20px;
   border-radius: 10px;
h2 {
   text-align: center;
    color: rgb(56, 21, 250);
   margin-bottom: 20px;
form {
   display: flex;
   flex-direction: column;
   width: 100%;
    background-color: blueviolet;
    padding: 20px;
   border-radius: 10px;
label {
    color: rgb(23, 238, 23);
   font-weight: bold;
   margin-bottom: 5px;
input, textarea {
    border: 1px solid rgb(66, 64, 64);
   border-radius: 10px;
    padding-left: 15px;
   height: 35px;
   font-size: 14px;
   margin-bottom: 10px;
textarea {
   height: 100px;
```

```
resize: vertical;
}
button {
  height: 40px;
  width: 120px;
  margin: 10px auto;
  background-color: #4CAF50;
  color: white;
  border-radius: 20px;
  border: none;
  font-size: 16px;
  cursor: pointer;
}
button:hover {
  background-color: #45a049;
}
```

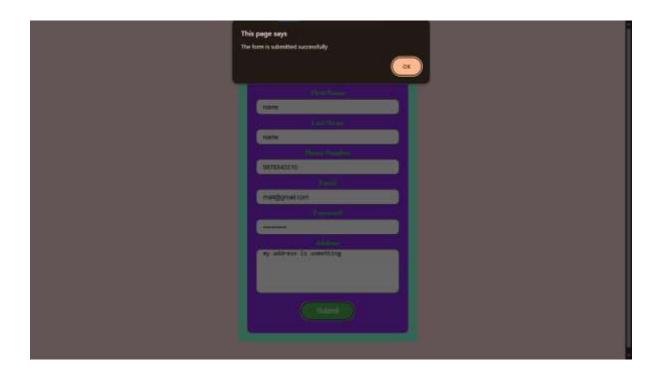
Script.js

```
function validate(){
   //first name
    var fn = document.getElementById("first_name").value;
    if (!fnval(fn)){
        alert("Enter the first name atlest longer than 3 character and only
contain letters");
        return false;
    var ln = document.getElementById("last_name").value;
    if(ln.length == 0){
        alert("Please Enter the last name");
        return false;
    //phone number
    var ph = document.getElementById("phnumber").value;
    if(typeof(ph) != 'number' && ph.length != 10){
        alert("Please Enter the correct phone number with 10 digits");
        return false;
    //Password
    var passw = document.getElementById("pass").value;
    if(!passval(passw)){
        alert("Enter a password with a uppercase, number, special character and
it need to be atlease 8 character in it");
        return false;
```

```
var add = document.getElementById("address").value;
    if(add.length == 0){
        alert("Please Enter your address");
        return false;
   else{
        alert("The form is submitted successfully");
        return true;
function fnval(fn){
    if (fn.length >3 && /^[A-Za-z]+$/.test(fn)){
        return true;
    else{
        return false;
function passval(pass){
   if(
        pass.length >=8 &&
        /[!@#$%^&*(),.?":{}|<>]/.test(pass) &&
        /[A-Z]/.test(pass) &&
        /[0-9]/.test(pass)
    ){
        return true;
   else{
```

OUTPUT:





RESULT:

Thus the validation of html form using java script was done successfully.