**LAB-2**

**(a)** Implement JavaScript Validations to the registration form using Event Listener and Events.

**Code Snippet:**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>Practical1B</title>

<link rel="stylesheet" href="prac1b.css">

<link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.4.0/css/all.min.css">

<!-- <script src="prac2.js" defer></script> -->

</head>

<body>

<div class="container">

<div class="heading">

Welcome....

</div>

<form action="#" method="get" onsubmit="return validate()">

<div class="ip-box-container">

<div class="ip-box">

<i class="fa-solid fa-user"></i>

<input type="text" placeholder="Username" oninput="validateUserName()" name="username">

</div>

<span id="username\_err">&nbsp;</span>

<div class="ip-box">

<i class="fa-solid fa-envelope"></i>

<input type="email" placeholder="Email" oninput="validateEmail()" name="email">

</div>

<span id="email\_err">&nbsp;</span>

<div class="ip-box">

<i class="fa-solid fa-phone"></i>

<input type="tel" placeholder="Phone" oninput="validatePhone()" name="phone">

</div>

<span id="phone\_err">&nbsp;</span>

<div class="ip-box">

<i class="fa-solid fa-lock"></i>

<input type="password" placeholder="Password" oninput="validatePass()" name="pass">

</div>

<span id="pass\_err">&nbsp;</span>

<div class="ip-box">

<i class="fa-solid fa-lock"></i>

<input type="password" placeholder="Confirm Password" oninput="validatecPass()" name="cpass">

</div>

<span id="cpass\_err">&nbsp;</span>

<div class="submit-box">

<input type="reset">

<input type="submit" >

<a href="#">Log in instead</a>

</div>

</div>

</form>

</div>

<!--JAVASCRIPT TO VALIDATE THE FORM DATA-->

<script>

const form=document.forms[0];

function validatePhone()

{

const phoneNum=form.phone.value;

const phoneNumRegx=/^[0-9]{10}$/

if(phoneNumRegx.test(phoneNum))

{

document.getElementById('phone\_err').innerHTML="&nbsp;"

return true;

}

else{

document.getElementById('phone\_err').innerHTML="Phone Number is not valid"

}

return false;

}

function validatePass()

{

const pass=form.pass.value;

const passRegx=/^[0-9a-zA-Z@$&\_?]{8,}$/

if(passRegx.test(pass))

{

document.getElementById('pass\_err').innerHTML="&nbsp;"

return true;

}

else{

document.getElementById('pass\_err').innerHTML="password is not valid"

}

return false;

}

function validateUserName()

{

const username=form.username.value;

const usernameRegx=/^[a-zA-Z0-9\_]{3,20}$/

if(usernameRegx.test(username))

{

document.getElementById('username\_err').innerHTML="&nbsp;"

return true;

}

else{

document.getElementById('username\_err').innerHTML="username is not valid"

}

return false;

}

function validateEmail()

{

const email=form.email.value;

const emailRegx=/^[a-zA-Z0-9.\_]{3,}@[A-Za-z]{3,}[.]{1}[A-Za-z.]{2,6}$/

if(emailRegx.test(email)){

document.getElementById('email\_err').innerHTML="&nbsp;"

return true;

}

else{

document.getElementById('email\_err').innerHTML="Please Enter Valid Email Address"

}

return false;

}

function validatecPass()

{

const pass=form.pass.value;

const cpass=form.cpass.value;

if(pass!=cpass)

{

document.getElementById('cpass\_err').innerHTML="confirm password not match"

return false;

}

else{

document.getElementById('cpass\_err').innerHTML="&nbsp;"

}

return true;

}

function validate()

{

return validateEmail()&&validateUserName()&&validatePhone()&&validatePass();

}

</script>

</body>

</html>

**Final Outcome:**

