***20BAI1155 (L43-44)***

**CSE3002**

**LAB Week 8 – JavaScript (Validation, regex)**

**HTML Code:**

**<!DOCTYPE *html*>**

**<html *lang*="en">**

**<head>**

**<title>Week 8</title>**

**<link *rel*="stylesheet" *href*="D:\VS Code\Web Dev basics\css\week8.css">**

**</head>**

**<body>**

**<h4>Checking power of 5</h4>**

**<div>Enter a number</div>**

**<input *id*="p5">**

**<button *type*="button" *onclick*="power5()">Check</button>**

**<br><br>**

**<div *id*="yes" *style*="color: green;"></div>**

**<div *id*="no" *style*="color: rgb(160, 33, 33);"></div>**

**<script *src*="pow5.js">**

**</script>**

**<br><br><br>**

**<h4>Form validation</h4>**

**<form *action*="">**

**<table *style*="background-color: skyblue;">**

**<tr>**

**<td><label *for*="card">Card number</label></td>**

**<td><label *for*="cvv">CVV</label></td>**

**</tr>**

**<tr>**

**<td><input *id*="card"></td>**

**<td><input *id*="cvv"></td>**

**</tr>**

**<tr>**

**<td><label *for*="nameoncard">Name on card</label></td>**

**<td><label *for*="exp">Expiration Date</label></td>**

**</tr>**

**<tr>**

**<td><input *id*="nameoncard"></td>**

**<td><input *id*="exp"></td>**

**</tr>**

**</tr>**

**</table>**

**</form>**

**<br>**

**<button *type*="button" *onclick*="userValidation()">Validate</button>**

**<br><br>**

**<div *id*="v" *style*="color: green;"></div>**

**<script *src*="card\_validation.js">**

**</script>**

**</body>**

**</html>**

**CSS Code:**

**table {**

**background-color: skyblue;**

**padding: 8px 8px 18px 8px;**

**border-radius: 5px;**

**}**

**button {**

**background-color: rgb(47, 158, 47);**

**color: whitesmoke;**

**border: none;**

**border-radius: 5px;**

**padding: 3px 7px 3px;**

**}**

**label {**

**font-weight: bold;**

**}**

**input[id]:not([id="p5"]) {**

**border: none;**

**border-radius: 5px;**

**background-color: aliceblue;**

**}**

**JS Codes:**

**function power5() {**

**var res, n = parseInt(document.getElementById("p5").value), ans, temp;**

**temp = n;**

**if (n == 0) {**

**res = true;**

**}**

**else {**

**while (n % 5 == 0) {**

**n /= 5**

**}**

**}**

**res = n == 1**

**if(res) {**

**ans = temp + " is a power of 5";**

**document.getElementById("yes").innerHTML = ans;**

**}**

**else {**

**ans = temp + " is not a power of 5";**

**document.getElementById("no").innerHTML = ans;**

**}**

**}**

**var cno, cname, cvv, exp;**

**var pattern\_cname, pattern\_cno, pattern\_cvv, pattern\_exp;**

**var res\_no, res\_name, res\_exp, res\_cvv, result;**

**function userValidation() {**

**var text;**

**cno = document.getElementById("card").value;**

**cname = document.getElementById("nameoncard").value;**

**cvv = document.getElementById("cvv").value;**

**exp = document.getElementById("exp").value;**

**pattern\_cno = /\d{4}-\d{4}-\d{4}-\d{4}/**

**pattern\_cname = /\w+/**

**pattern\_cvv = /\d{3}/**

**pattern\_exp = /\d{2}\/\d{2}/**

**res\_no = pattern\_cno.test(cno);**

**res\_cvv = pattern\_cvv.test(cvv);**

**res\_name = pattern\_cname.test(cname);**

**res\_exp = pattern\_exp.test(exp);**

**result = res\_no && res\_name && res\_cvv && res\_exp;**

**if(result) {**

**text = "Card details validated"**

**} else {**

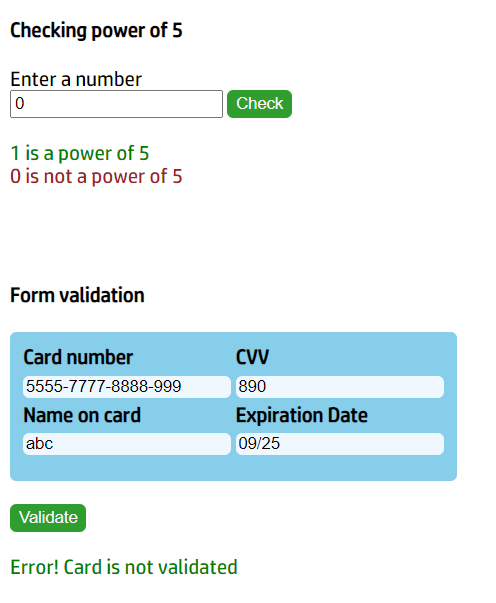
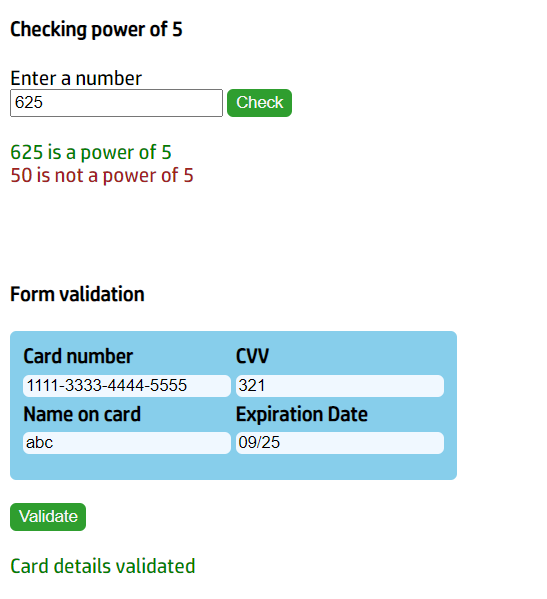
**text = "Error! Card is not validated"**

**}**

**document.getElementById("v").innerHTML = text;**

**}**

**OUTPUTS:**

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