



# RIPHAH

INTERNATIONAL UNIVERSITY

## Assignment - 03

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Submitted to: Mr. Muhammad Haroon

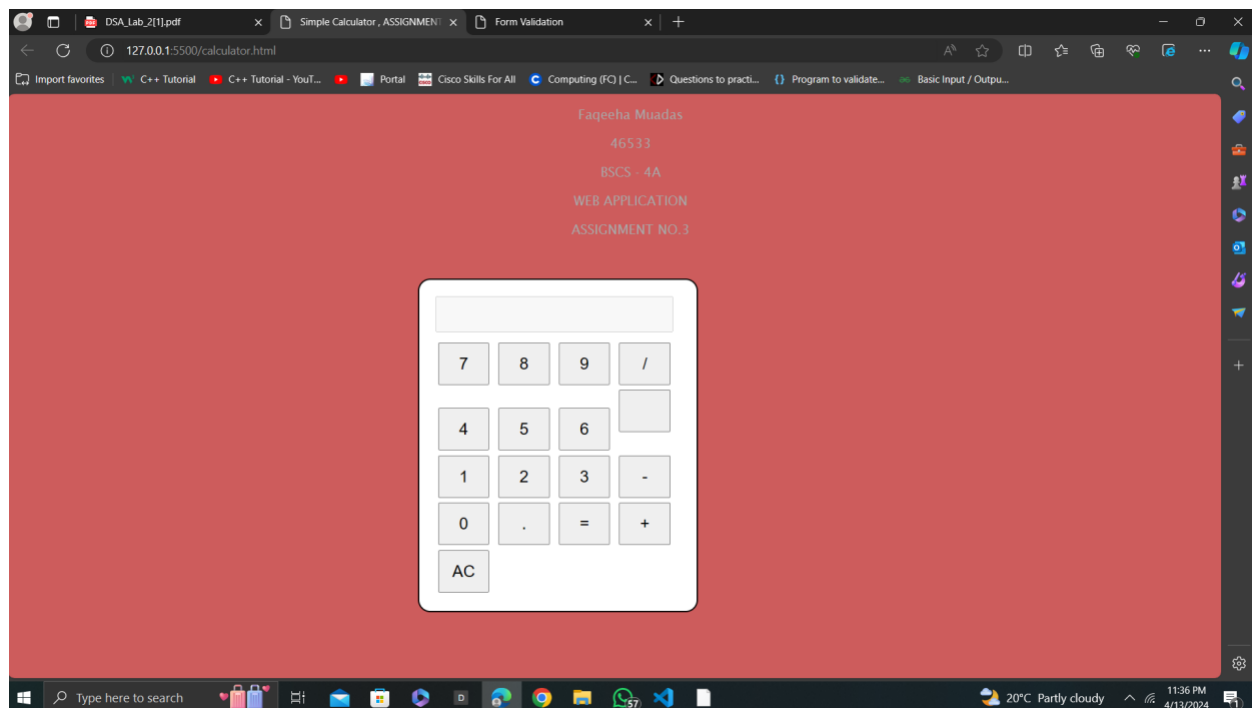
Department: BSCS

Sap ID: 46533

Semester: 4<sup>rd</sup> semester

Subject: Web application development

### Question1.



## HTML:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Simple Calculator , ASSIGNMENT 3</title>
  <link rel="stylesheet" href="cal_style.css">
</head>
<body>
  <script src="Caljs.js"></script>
  <header>
    <ul>Faqeeha Muadas</ul>
    <ul>46533</ul>
    <ul>BSCS - 4A</ul>
    <ul>WEB APPLICATION</ul>
    <ul>ASSIGNMENT NO.3</ul>
  </header>
  <div class="calculator">
    <input type="text" id="display" disabled>
    <input type="button" value="7" onclick="addToDisplay('7')">
    <input type="button" value="8" onclick="addToDisplay('8')">
    <input type="button" value="9" onclick="addToDisplay('9')">
    <input type="button" value="/" onclick="addToDisplay('/')">
    <br>
    <input type="button" value="4" onclick="addToDisplay('4')">
    <input type="button" value="5" onclick="addToDisplay('5')">
    <input type="button" value="6" onclick="addToDisplay('6')">
    <input type="button" value="" onclick="addToDisplay('')">
    <br>
    <input type="button" value="1" onclick="addToDisplay('1')">
    <input type="button" value="2" onclick="addToDisplay('2')">
    <input type="button" value="3" onclick="addToDisplay('3')">
    <input type="button" value="-" onclick="addToDisplay('-')">
    <br>
    <input type="button" value="0" onclick="addToDisplay('0')">
    <input type="button" value="." onclick="addToDisplay('.')">
    <input type="button" value="=" onclick="calculate()">
    <input type="button" value="+" onclick="addToDisplay('+')">
    <br>
    <input type="button" value="AC" onclick="clearDisplay()">
  </div>
</body>
</html>
```

CSS:

```
body {
  font-family: 'Lucida Sans', 'Lucida Sans Regular', 'Lucida Grande', 'Lucida
Sans Unicode', Geneva, Verdana, sans-serif;
  background-color: indianred;
}
header{
  color: darkgray;
  text-align: center;
}
.calculator {
  width: 300px;
  background-color: white;
  margin: 50px 495px;
  border: 2px solid black;
  padding: 20px;
  border-radius: 15px;
}
input[type="button"] {
  width: 63px;
  height: 52px;
  font-size: 20px;
  margin: 3px;
  cursor: pointer;
}
input[type="text"] {
  width: 97%;
  color: black;
  margin-bottom: 10px;
  padding: 10px;
  font-size: 18px;
  box-sizing: border-box;
}
```

JS:

```
function addToDisplay(value) {
  document.getElementById('display').value += value;
}

function clearDisplay() {
  document.getElementById('display').value = '';
}

function calculate() {
```

```

    try {
        document.getElementById('display').value =
eval(document.getElementById('display').value);
    } catch (error) {
        document.getElementById('display').value = 'Error';
    }
}

```

## Question2.

```

<!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>
<style>
    body{
        background-color: darkgrey;
    }
    .error {
        color: red;
    }
</style>
</head>
<body>

<form id="myForm" onsubmit="return validateForm()">
    <label for="email">Email:</label><br>
    <input type="text" id="email" name="email"><br>
    <span id="emailError" class="error"></span><br>

    <label for="password">Password:</label><br>
    <input type="password" id="password" name="password"><br>
    <span id="passwordError" class="error"></span><br>

    <label for="text">Text:</label><br>
    <input type="text" id="text" name="text"><br>
    <span id="textError" class="error"></span><br>

    <label for="number">Number:</label><br>
    <input type="number" id="number" name="number"><br>
    <span id="numberError" class="error"></span><br>

    <label for="date">Date:</label><br>

```

```

<input type="date" id="date" name="date"><br>
<span id="dateError" class="error"></span><br>

<label for="checkbox">Checkbox:</label><br>
<input type="checkbox" id="checkbox" name="checkbox"><br>
<span id="checkboxError" class="error"></span><br>

<label for="radio">Radio Button:</label><br>
<input type="radio" id="radio" name="radio"><br>
<span id="radioError" class="error"></span><br>

<label for="dropdown">Dropdown: City Name </label><br>
<select id="dropdown" name="dropdown">
  <option value=""></option>
  <option value="option1">Lahore</option>
  <option value="option2">Islamabad</option>
  <option value="option3">Karachi</option>
</select><br>
<span id="dropdownError" class="error"></span><br>

<input type="submit" value="Submit">
</form>

<script>
function validateForm() {
  var email = document.getElementById("email").value;
  var password = document.getElementById("password").value;
  var text = document.getElementById("text").value;
  var number = document.getElementById("number").value;
  var date = document.getElementById("date").value;
  var checkbox = document.getElementById("checkbox").checked;
  var radio = document.getElementById("radio").checked;
  var dropdown = document.getElementById("dropdown").value;

  var emailError = document.getElementById("emailError");
  var passwordError = document.getElementById("passwordError");
  var textError = document.getElementById("textError");
  var numberError = document.getElementById("numberError");
  var dateError = document.getElementById("dateError");
  var checkboxError = document.getElementById("checkboxError");
  var radioError = document.getElementById("radioError");
  var dropdownError = document.getElementById("dropdownError");

  var isValid = true;

```

```

// Email validation
if (!email.includes("@")) {
    emailError.innerHTML = "Email must contain @ symbol";
    isValid = false;
} else {
    emailError.innerHTML = "";
}

// Password validation
if (!password.match(/[a-z]/) || !password.match(/[A-Z]/) ||
!password.match(/[0-9]/)) {
    passwordError.innerHTML = "Password must contain at least one lowercase
letter, one uppercase letter, and one digit";
    isValid = false;
} else {
    passwordError.innerHTML = "";
}

// Text validation
if (text.length < 3) {
    textError.innerHTML = "Text must be at least 3 characters long";
    isValid = false;
} else {
    textError.innerHTML = "";
}

// Number validation
if (isNaN(number)) {
    numberError.innerHTML = "Please enter a valid number";
    isValid = false;
} else {
    numberError.innerHTML = "";
}

// Date validation (optional)
if (date === "") {
    dateError.innerHTML = "Please select a date";
    isValid = false;
} else {
    dateError.innerHTML = "";
}

// Checkbox validation (optional)
if (!checkbox) {
    checkboxError.innerHTML = "Checkbox must be checked";
}

```

```
        isValid = false;
    } else {
        checkboxError.innerHTML = "";
    }

    // Radio button validation (optional)
    if (!radio) {
        radioError.innerHTML = "Radio button must be selected";
        isValid = false;
    } else {
        radioError.innerHTML = "";
    }

    // Dropdown validation (optional)
    if (dropdown === "") {
        dropdownError.innerHTML = "Please select an option from the dropdown";
        isValid = false;
    } else {
        dropdownError.innerHTML = "";
    }

    return isValid;
}
</script>

</body>
</html>
```

