



Green University of Bangladesh
Department of Computer Science and Engineering(CSE)
Faculty of Sciences and Engineering
Semester: (Spring , Year:2024), B.Sc. in CSE (Day)

LAB REPORT NO #02

Course Title: Web Programing Lab

Course Code: CSE - 302

Section: 213_D21

Lab Experiment Name: Java Script Implementation (If, else, Switch, For Loop) Learned Form Last Lab .

Student Details

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Lab Date : 25– 03 - 2024

Submission Date : 22– 04 - 2023

Course Teacher's Name : Most. Rokeya Khatun

[For Teachers use only: Don't Write Anything inside this box]

<u>Lab Report Status</u>	
Marks:	Signature:.....
Comments:.....	Date:.....

1. IMPLEMENTATION

Task 1 (Converts Celsius to Fahrenheit) :

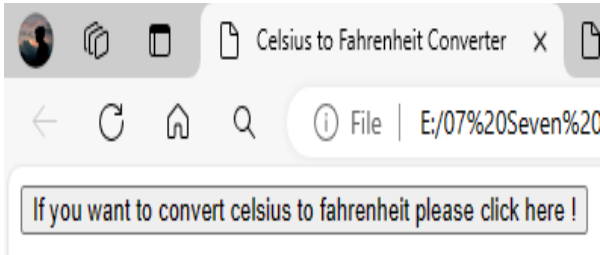
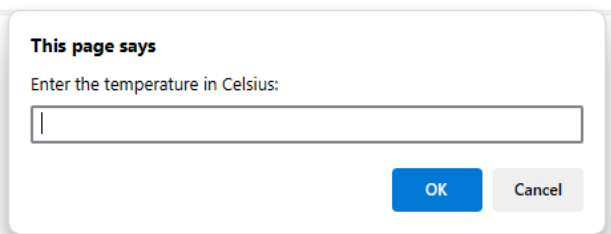
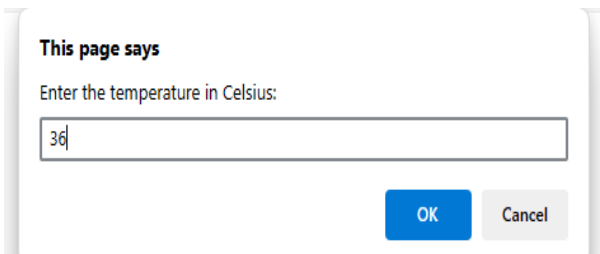
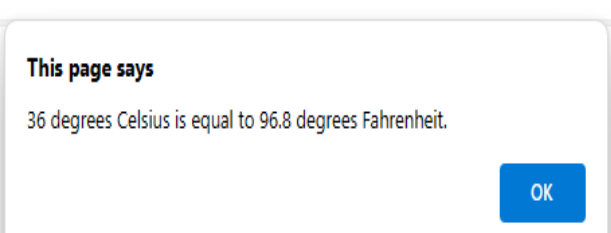
Code :	
<pre><!DOCTYPE html> <html> <head> <title>Celsius to Fahrenheit Converter</title> <script> function convertCelsiusToFahrenheit() { var celsius = prompt("Enter the temperature in Celsius:"); var fahrenheit = (celsius * 9/5) + 32; alert(celsius + " degrees Celsius is equal to " + fahrenheit + " degrees Fahrenheit."); } </script> </head> <body> <button onclick="convertCelsiusToFahrenheit()">If you want to convert celsius to fahrenheit please click here !</button> </body> </html></pre>	
Output :	
 <p>1 (a)</p>	 <p>1 (b)</p>
 <p>1 (c)</p>	 <p>1 (d)</p>

Figure 1 : Click 1(a) then open popup screen 1(b) for enter celsius value 36 1(c) then show the open popup screen with the result Successfully .

Task 2 (determines its type (number: positive, negative, zero or character: uppercase, lowercase)) :

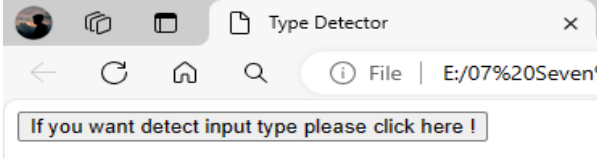
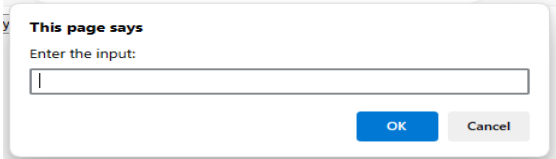
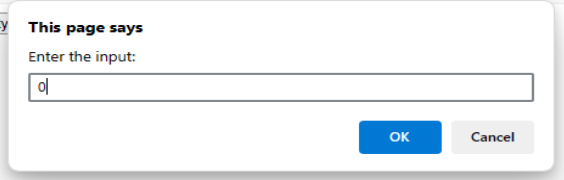
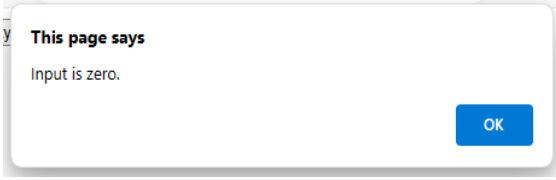

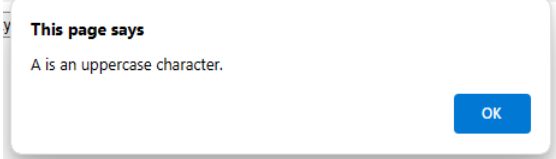
<p>Code :</p> <pre> <!DOCTYPE html> <html> <head> <title>Type Detector</title> <script> function detectType() { var input = prompt("Enter the input:"); if (!isNaN(input)) { input = parseFloat(input); if (input > 0) { alert(input + " is a positive number."); } else if (input < 0) { alert(input + " is a negative number."); } else { alert("Input is zero."); } } else if (input.length === 1) { </pre>	<pre> if (input === input.toUpperCase()) { alert(input + " is an uppercase character."); } else if (input === input.toLowerCase()) { alert(input + " is a lowercase character."); } else { alert(input + " is not a valid character."); } } } } alert("Input is neither a number nor a character."); } </script> </head> <body> <button onclick="detectType()">If you want detect input type please click here !</button> </body> </html> </pre>
<p>Output :</p>  <p>2 (a)</p>	 <p>2 (b)</p>
 <p>2 (c)</p>	 <p>2 (d)</p>
 <p>2 (e)</p>	 <p>2 (f)</p>

Figure 2 : Click 2(a) then open popup screen 2(b) for enter input 0 2(c) then show the open popup screen with the result 2(d) , also input -7 2(e) & A 2(f) Successfully .

Task 3 (Check vowel or consonant using switch/case) :

Code :	
<pre><!DOCTYPE html> <html> <head> <title>Vowel or Consonant Checker</title> <script> function checkType() { var input = prompt("Enter a letter:"); input = input.toLowerCase(); if (input.length === 1) { switch(input) { case 'a': case 'e': case 'i': case 'o': case 'u': alert(input + " is a vowel."); break; default: alert(input + " is a consonant."); } } else { alert("Please enter a single letter."); } } </script> </head> <body> <button onclick="checkType()">If you want check vowel or consonant please click here !</button> </body> </html></pre>	
Output :	
3 (a)	3 (b)
3 (c)	3 (d)

Figure 3 : Click 3(a) then open popup screen 3(b) for entering input a 3(c) then show the result Successfully .

Task 4 (Calculate sum of even numbers up to 100 using for loop) :

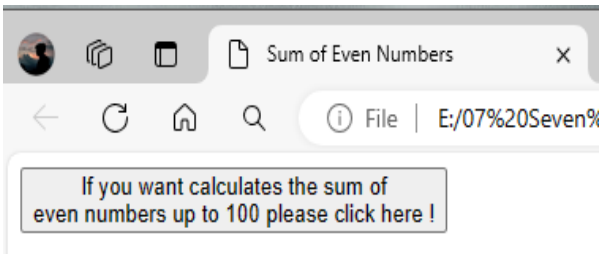
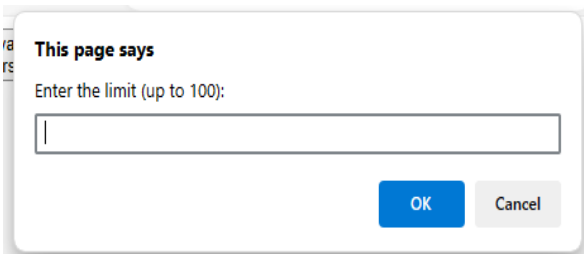
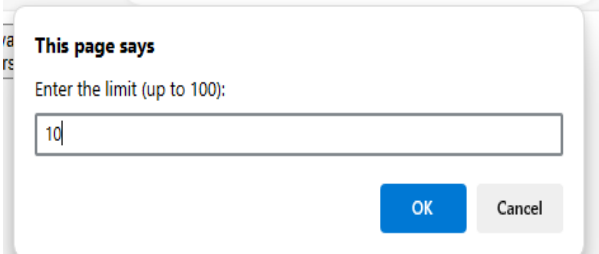
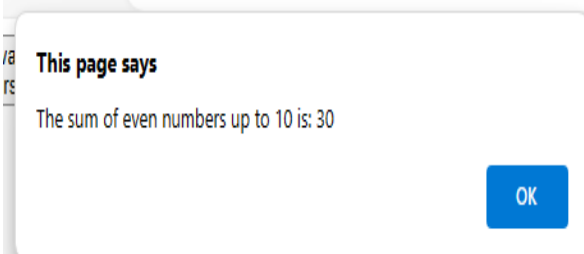
Code :	
<pre> <!DOCTYPE html> <html> <head> <title>Sum of Even Numbers</title> <script> function calculateSum() { var limit = prompt("Enter the limit (up to 100):"); var sum = 0; if (!isNaN(limit) && limit >= 1 && limit <= 100) { for (var i = 2; i <= limit; i += 2) { sum += i; } alert("The sum of even numbers up to " + limit + " is: " + sum); </pre>	<pre> } else { alert("Please enter a valid number between 1 and 100."); } } </script> </head> <body> <button onclick="calculateSum()">If you want calculates the sum of </br>even numbers up to 100 please click here !</button> </body> </html> </pre>
Output :	
 <p style="text-align: center;">4 (a)</p>	 <p style="text-align: center;">4 (b)</p>
 <p style="text-align: center;">4 (c)</p>	 <p style="text-align: center;">4 (d)</p>

Figure 4 : Click 4(a) then open popup screen 4(b) for entering input 10 4(c) then show the result (2+4+6+8+10 = 30) Successfully .