

FACULTY OF COMPUTER SCIENCE AND INFORMATION TECHNOLOGY

LAB 4

BIC21203: WEB DEVELOPMENT

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SECTION:6

Lab 4 a

Instruction: Answer all questions.

1. Write an HTML with JavaScript statements to change the content of the to "Hello there!".

Welcome to my website!

```
o index.html ×

∨ OPEN EDITORS

                                 <!DOCTYPE html>
       X ♦ index.html
                                <html lang="en">
<head>
    ∨LAB4 [ユロロ
     index.html
                                     <meta name="viewport" content="width=device-width, initial-scale=1.0">
      # style.css
                                     <title>Change Content Example</title>
                                          function changeContent() {
                                             document.querySelector('#myElement p').textContent = "Hello there!";
@
                                      <div id="myElement">
                                         Welcome to my website!
                                     <button onclick="changeContent()">Change Content</button>
```

Figure 1: index.html coding

Figure 2: styles.css coding



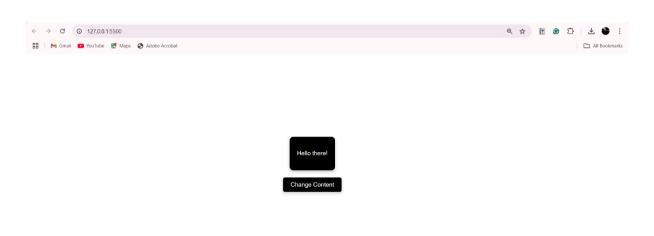


Figure 3: webpage

2. Based on the HTML code below, write an HTML with a JavaScript function named checkInput() that uses if else condition to validate if the number entered is lower or higher than 10. If it is lower than 10, then make an alert of "The number is lower than 10", otherwise "The number is higher than 10". If the user entered other than numbers (eg:alphabets), alert "Please insert a number!".

<input type="text" id="userInput" placeholder="Enter a number"> <button</pre> onlick="checkInput()">Check</button>

```
| Part |
```

Figure 4: index1.html coding q2

```
| Description | The Second Sec
```

Figure 5: styles2.css coding q2

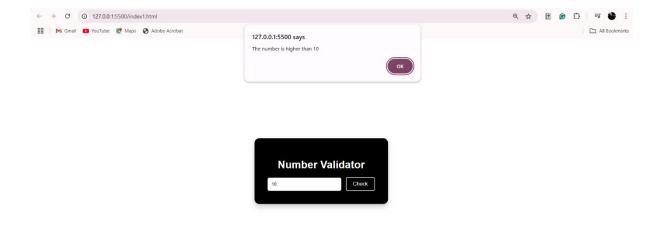


Figure 6: webpage q2

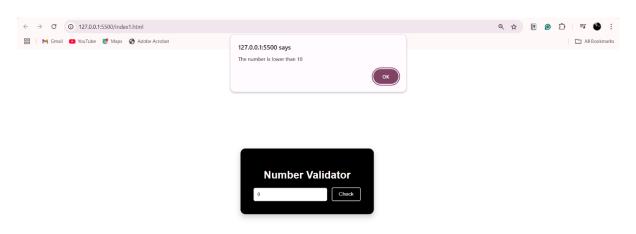


Figure 7: webpage q2

3. Complete the JavaScript code below to produce the expected output. Write your answer in a complete HTML code.

```
<script> let text = ""; for (let i = 0; //complete your
answer here) { text += "The number is " //complete
your answer here
}
```

document.getElementById("demo").innerHTML = text;

</script>

Figure 7: index2.html coding q3

```
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```

Figure 8: styles2.css coding q3

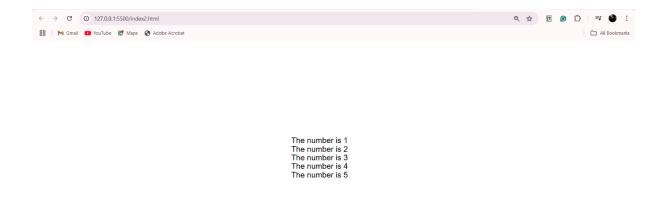


Figure 8: webpage q3

Lab 4 b

1. Consider the following collection of books:

	Book 1	Book 2
title	The Great Gatsby	To Kill a Mockingbird
author	F. Scott Fitzgerald	Harper Lee
publicationYear	1925	1960
genres	Fiction, Classics	Fiction, Coming-of-Age

Create a JSON representation (.json file) of this collection.

```
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```

Figure 9: books.json coding

- 2.Based on the JSON you have written in Question (1), write an HTML file to display the following details.
 - (a) The title of the first book.
 - (b) The author of the second book.
 - (c) (c) The genres of all books.

You can display the details through $_{\mbox{\scriptsize Inspect-Console}}$ on your browser.

```
| Decision | Company | Company | Decision |
```

Figure 10: books.html coding

```
| December | December
```

Figure 11: books.css coding

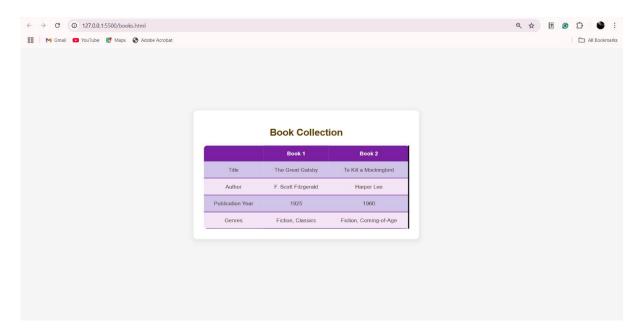


Figure 12: books collection webpage

3. Rewrite the HTML code below with the jQuery statements that are equivalent to the JavaScript DOM statements in a, b, and c.

```
<!DOCTYPE html>
<html>
<head>
     <title>jQuery DOM Operations</title>
      <script
      src="https://ajax.googleapis.com/ajax/libs/jquery/3.7.1/j
      query.min.js"></script>
     <style> .myStyle
         background-color:
        padding: 16px;
coral;
     </style>
</head>
<body>
  <div id="myElement">Original Text</div>
 <div id="myDIV">
   I am a myDIV.
 </div>
  <button id="myButton">Click me</button>
 <script>
   // a
   // var element = document.getElementById("myElement");
   // element.textContent = "Modified Text";
   //jQuery equivalent of a - write your answer here
   // b
   // var paragraph = document.querySelector("#myDIV");
   // paragraph.classList.add("myStyle");
   //jQuery equivalent of b - write your answer here
   // c
   //
                 var
                                button
                                                  =
document.getElementById("myButton");
                                                 //
button.addEventListener("click", function() {
                                                //
alert("Button clicked!");
   // });
   //jQuery equivalent of c - write your answer here
 </script>
</body>
</html>
```

Answers:

```
<!DOCTYPE html>
<html>
<head>
     <title>jQuery DOM Operations</title>
     src="https://ajax.googleapis.com/ajax/libs/jquery/3.7.1/j
     query.min.js"></script>
     <style> .myStyle
      background-color:
        padding: 16px;
coral;
    </style>
</head>
<body>
 <div id="myElement">Original Text</div>
 <div id="myDIV">
   I am a myDIV.
 </div>
 <button id="myButton">Click me</putton>
 <script>
   // a
   // var element = document.getElementById("myElement");
   // element.textContent = "Modified Text";
   $("#myElement").text("Modified Text");
   // b
   // var paragraph = document.querySelector("#myDIV");
   // paragraph.classList.add("myStyle");
   $("#myDIV").addClass("myStyle");
   // c
   //
                var
                              button
document.getElementById("myButton");
                                             //
alert("Button clicked!");
   // });
   $("#myButton").on("click", function() {
alert("Button clicked!");
       });
 </script>
</body>
</html>
```