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| **Introduction to Internet and Web** |
| **Assignment #09 Report** |

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| **Section** | 061 |

## <Note>

* Submit this document as well as the entire working directory for this assignment on PLATO.
* Missing code yields 20% of points deduction.
* Compress the entire working directory (including the HTML source code and media files) as a single zip file.
  + If you need a tool/software to create a zip file, please visit: https://kr.bandisoft.com/bandizip/
* You may need to take screenshots and attach in this report.
* For Window OS users, to take a screenshot:
  + Press Windows logo key + Shift + S, *OR*
  + Press Print Screen (PrtSc) key.
* For Mac OS users, to take a screenshot:
  1. To take a screenshot, press and hold these three keys together: Shift, Command, and 3.
  2. If you see a thumbnail in the corner of your screen, click it to edit the screenshot. Or wait for the screenshot to save to your desktop.

<Additional notes>

* If the deadline is 13:30, it means 13:30:00 (= 13-hour, 30-minute and 00-second)
* (if applicable) Make sure to use relative pathnames so that your code works on the grader’s computer.

## <Assignments>

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| **[Q 1] Arrays with random numbers [points: 30]**  By using the provided sample code, Q1-Template.html, make necessary modifications so that it works as the attached demo video. In short, generate ten random numbers from the range, 0~100, and compute the sum. Then, find the max, min and mean. For this problem, you must use array. It is not mandatory to use the given template code. Your solution file’s name should be either Q1-Template.html or Q1.html.  <Example> | |
| **Take and attach screenshot of the loaded web page.** | |
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| **Refresh the web browser, and take & attach screenshot of the loaded web page.** | |
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| **[Q 2] String matching [points: 30]**  By using the provided sample code, Q2-Template.html, make necessary modifications so that it works as the attached demo video. In short, you’ll be entering 1) a long sentence or a long word, and 2) a short word. Finally, check if the short word appears in the long sentence/word. Checking should be case-sensitive, and if there are multiple occurrences of the short word in the long sentence, find only the one that appears earliest and change the color to red. It is not mandatory to use the given template code. Your solution file’s name should be either Q2-Template.html or Q2.html.    For this problem, you may find the substr function useful. | |
| **Take and attach screenshot of the web page with:**   * **Click ‘Enter a sentence’ and type: Hello** * **Click ‘Enter a word’ and type: ell** * **Click ‘Find the first match’**   **Now, take and attach screenshot of the web page.** | |
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| **Then, click ‘Enter a word’ and type wow, while leaving the sentence as it is. Click the ‘Find the first match’ button, and then take and attach screenshot of the web page.** | |
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| **[Q 3] User-Defined Object for Books [points: 40]**  By using the provided sample code, Q3-Template.html, make necessary modifications so that it works as the attached demo video. You’ll be entering three book info, including book title, author, and price, and this three information should be separated by comma without any space before/after each comma. Also, the most expensive book information should be dynamically updated. For this problem, use the user-defined object. It is not mandatory to use the given template code. Your solution file’s name should be either Q3-Template.html or Q3.html. | |
| **Click the ‘Enter the ... book info’ button and enter the book info as follows:**   * **[1st book]** WebProgramming,Daniel,10000 * **[2nd book]** CSS3,Cindy,20000   **Before entering the 3rd book info, take and attach the screenshot below.** | |
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| **Finally, enter the 3rd book info as follows:**   * **[3rd book]** JavaScript,Lora,30000   **Now, take and attach the screenshot below.** | |
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Now, submit the current document and the entire working directory on PLATO.

**THE END**