

## Week 3 Self Directed Learning Week JavaScript Assignment

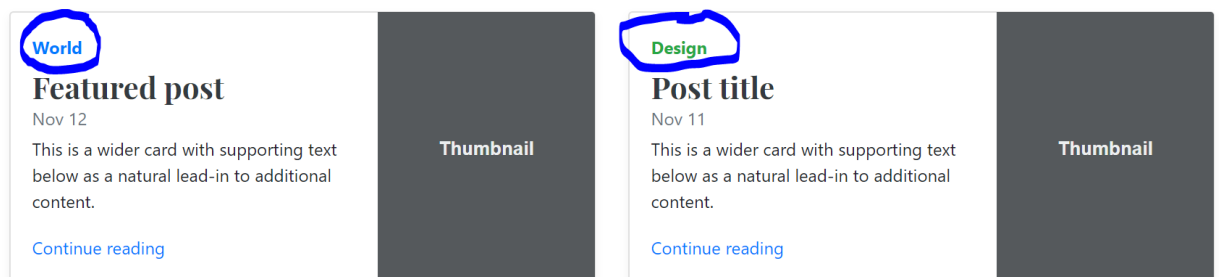
There are 2 questions in this assignment. Download and extract the zip file “week3 JavaScript Assignment Qn.zip” which contains the templates for both questions. You are free to make any modifications to any files from the template zip file, and also free to include any new files as your answer.

When completed, zip ALL the files into one single zip file in the format “<name>-<Admin Number>.zip” and upload to Blackboard using your own tutorial group’s submission link.

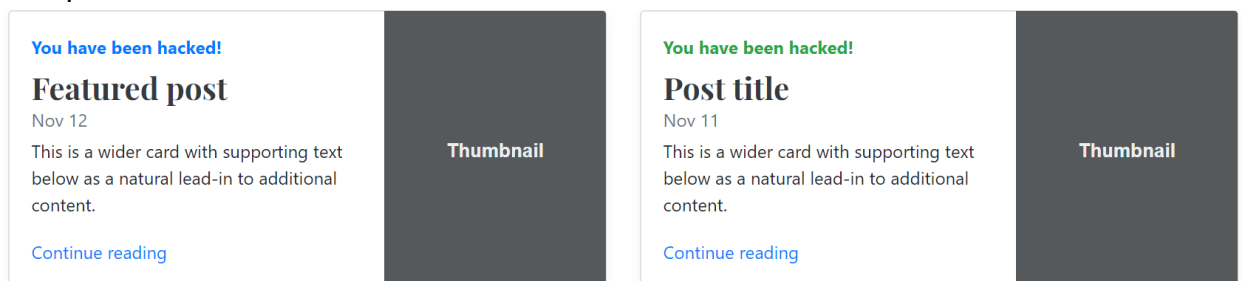
### Question 1

The file q1.html represents a typical home page of a blog using Bootstrap for layout customizations. Using only JavaScript functions in a separate file “q1.js”, modify the following stuffs to simulate hacking and de-facing of the site.

- a) Change the title of every posts in this blog to “You have been hacked!”. Your script should apply this modification to the title, to any new posts created in the future as well.



Sample:



- b) Using JavaScript only, change the hyperlink of "Facebook" from "https://www.facebook.com" to "https://www.google.com". Clicking on the link after running the script will open [www.google.com](https://www.google.com) instead of [www.facebook.com](https://www.facebook.com).



## Question 2

The text boxes will take 2 strings as input. Both strings are expected to be anagrams of each other. An anagram is a word or phrase formed by rearranging the letters of a different word or phrase. For eg. "hello" is an anagram of "elloh", "aabb" is an anagram of "baba". The exact number of characters in the first string should appear in the second string in they are anagrams of each other.

Write JavaScript functions in script.js, to read the user input of the 2 strings, and check if they are anagrams of each other. If they are anagrams of each other, display on the page "Yes, the 2 strings are anagrams of each other.", otherwise display "No, the 2 strings are NOT anagrams of each other."

You are to write a **Named function** to check for anagram, and also an **Anonymous function** that does the same check.

Sample output:

Check with Named Function

Check with Anonymous Function

Using Named Function Check  
Yes, the 2 strings are anagrams of each other.

aabb

baba

Check with Named Function

Check with Anonymous Function

Using Anonymous Function check  
Yes, the 2 strings are anagrams of each other.

aabb

babd

Check with Named Function

Check with Anonymous Function

Using Named Function Check  
No, the 2 strings are NOT anagrams of each other.

aabb

babd

Check with Named Function

Check with Anonymous Function

Using Anonymous Function check  
No, the 2 strings are NOT anagrams of each other.