Javascript for Beginners

Lab Exercise 8

1. Create a new HTML document with the basic document structure. In the body, insert a set of script tags with the appropriate attributes so that you may insert Javascript into the document.

2. Declare a variable called "poem" in the Javascript.

3. Using concatenation, add the following text to "poem". Use <br/> tags at the end of each line to create line breaks.

4. Create a loop to iterate through the string one letter at a time. Create a new string variable and within the loop access each character in the poem – from the first character to the final character.

5. While in the loop, if the character is a vowel, replace it with an "X" and add that character to the new string. If the letter is a consonant, simply add it to the new string.

6. Output the poem with the changes made by the loop. It should output like this:

With Rue My Heart Is Laden
For Golden Friends I Had
For Many a Rose-Lipped Maiden
And Many a Light-Foot Lad

By Brooks To Broad For Leaping
The Light-Foot Boys are Laid
The Rose-Lipped Girls are Sleeping
In Fields Where Roses Fade

```
WXth RXe My HXXrt Xs LXdXn
FXr GXldXn FrXXnds X HXd
FXr MXny X RXsX-LXppXd MXXdXn
Xnd MXny X LXght-FXXt LXd

By BrXXks TX BrXXd FXr LXXpXng
ThX LXght-FXXt BXys XrX LXXd
ThX RXsX-LXppXd GXrls XrX SlXXpXng
Xn FXXlds WhXrX RXsXs FXdX
```

7. Create a new variable and assign it the value:
"tennis,ice,hockey,baseball,basketball,football,soccer,bowling"

8. Using the correct string method, convert the string into an array with each sport occupying an array index.

9. Sort the array alphabetically and output the array by looping through it.

Correct Output:

```
With Rue My Heart Is Laden
For Golden Friends I Had
For Many a Rose-Lipped Maiden
And Many a Light-Foot Lad

By Brooks To Broad For Leaping
The Light Foot Boys are Laid
The Rose-Lipped Girls are Sleeping
In Fields Where Roses Fade
*****************************************
WXth RXX My HXXrt Xs LXdXn
FXr GXldXn FrXXnds X HXd
FXr MXny X RXsX-LXppXd MXXdXn
Xnd MXny X LXght-FXXt LXd

By BrXXks TX BrXXd FXr LXXpXng
ThX LXght FXXt BXys XrX LXXd
ThX RXsX-LXppXd GXrls XrX SlXXpXng
Xn FXXlds WhXrX RXsXs FXdX
*****************************************
baseball
basketball
bowling
football
ice hockey
soccer
tennis
```