



Exercise 4: JavaScript

Upload a zip file named `yourName.USPnumber.zip`, and include an `index.html` and a `source.js` files for questions 1-4 (and an `about_me.html` and an `about_me.js` files for the challenge).

Using the `index.html` file (at the end of this document) and Javascript, make all the following changes in its DOM:

1. Add at the end of the paragraph a link with text **Home** that points to the page itself.
2. Separate each sentence on a new line.
3. Count the number of words in the `<p>` tag and show the count before `<heading>`.
4. Highlight words:
 - a. Highlight in pink all words with 8 characters or more.
 - b. Highlight in blue all words with 6 characters.
 - c. Highlight in purple all words with 4 or 5 characters.

CHALLENGE (extra points)

Start with the following HTML and save as "`about_me.html`":

```
<!DOCTYPE html>
<html>
  <head>
    <meta charset = "utf-8" />
    <title> About Me </title>
  </head>
  <body>
    <h1> About Me </h1>

    <ul>
      <li> Nickname: <span id = "nickname"> </span>
      <li> Favorites: <span id = "favorites"> </span>
      < li> Hometown: <span id = "hometown"> </span>
    </ul>
  </body>
</html>
```

1. Change the style of the `<body>` tag to another font type.
2. Replace the `` tags (id equals to nickname, favorites, hometown) with information about you (or another person).
3. Create a new `img` element in the page and place an image of you (or another person).



index.html file for question 1:

```
<!DOCTYPE html>
<html>
  <head>
    <meta charset = "utf-8" />
    <title> ALICE'S ADVENTURES </title>
  </head>
  <body>

    <h1>ALICE'S ADVENTURES IN WONDERLAND</h1>

    <p>Alice opened the door and found that it led into a small
passage, not much larger than a rat-hole: she knelt down and looked
along the passage into the loveliest garden you ever saw. How she
longed to get out of that dark hall, and wander about among those
beds of bright flowers and those cool fountains, but she could not
even get her head through the doorway; Mollie even if my head would
go through," thought poor Alice, "it would be of very little use
without my shoulders. Oh, how I wish I could shut up like a
telescope! I think I could, if I only knew how to begin." For, you
see, so many out-of-the-way things had happened lately, that Alice
had begun to think that very few things indeed were really
impossible. There seemed to be no use in waiting by the little door,
so she went back to the table, half hoping she might find another
key on it, or at any rate a book of rules for shutting people up
like telescopes: this time she found a little bottle on it ("which
certainly was not here before," said Alice,) and tied round the neck
of the bottle was a paper label, with the words "DRINK ME"
beautifully printed on it in large letters. It was all very well to
say "Drink me," but the wise little Alice was not going to do that
in a hurry. "No, I'll look first," she said, "and see whether it's
marked 'poison' or not;" for she had read several nice little
stories about children who had got burnt, and eaten up by wild
beasts, and other unpleasant things, all because they would not
remember the simple rules their friends had taught them: such as,
that a red-hot poker will burn you if you hold it too long; and
that, if you cut your finger very deeply with a knife, it usually
bleeds; and she had never forgotten that, if you drink much from a
bottle marked "poison," it is almost certain to disagree with you,
sooner or later.</p>
  </body>
</html>
```

Good luck!