Topic/Title:	Strings
	String Lengths and Retrieving the Number of Characters
	Slicing and Extracting Parts of a String
	Challenge: Changing Casing in Text
	Challenge: Changing String Casing Solution

Keywords/Questions:

Concatenation

word.length;

word.slice(lower,upper);

word.toUpperCase();

word.toLowerCase();

Notes:

We can combine two or more strings with a + sign.

$$\text{"a" + "b" = "ab"}$$

Concatenation:

    -the process of using a + sign to combine two or more strings.

word.length; :- used to find the length or the number of characters of a string.

```
var name = "Angela";
name.length;                <- 6
```

```
var tweet=prompt("Compose your tweet:");
alert("You have written " + tweet.length + " characters, you have " + (140-tweet.length) + " characters left.");
```

chrome://new-tab-page says

You have written 4 characters, you have 136 characters left.

OK

-Let us say I typed Hale in

the prompt.

word.slice(); :-used to slice a word. For example "hale".slice(0,2); is "ha".

```
var name = "Angela";
name.slice(0,1);            <- "A"
```

    -JavaScript counting starts from 0 that means "A" is in the 0th position i

```
var name = "Angela";        var name = "Angela";
name.slice(5,6);            name.slice(0,3);
       <- "a"                       <- "Ang"
```

Summary:

Concatenation:- adding two or more strings together. We use t he + sign.

word.length:- used to find out the length of a string.

word.slice(lowerbound, upperbound); :- used to slice strings.

word.toUpperCase(); :- converts all the letters in a string to uppercase.

word.toLowerCase(); :-converts all the letters in a string to lowercase.

word.slice(); continued:

    −word.skuce(lower bound, upper bound);

        −to find out the number of characters we are slicing we can use the formula:

            slice length = upper bound−lower bound

```
var name = "Angela";    −we get 4 characters sliced.
name.slice(1,5);
```

```
alert(prompt("Compose your tweet:").slice(0,140));
```

        −cuts down whatever we have written in the prompt to 140 characters and displays it.

word.toUpperCase(); :−turns every single character in the string to the uppercase version of it.

```
var name = "Angela";
name = name.toUpperCase();
```

```
> "Angela".toUpperCase();
< 'ANGELA'
```

```
> name
< "ANGELA"
```

word.toLowerCase(); :−turns every single character in the string to the lowercase version of it.

        −just does the opposite of word.toLowerCase();

```
var name=prompt("What is your Name?");
name=name.slice(0,1).toUpperCase()+name.slice(1,name.length).toLowerCase();
```

    −This line of code Capitalized the first letter of every word we enter while keeping all the other letters in lowercase. For example, if we input the word "hAlE", the final value of name would be "Hale".