

CS 350/491
WEB APPLICATION DEVELOPMENT

String

```
var fileName = "JohnDoe_lab14.pdf";
```

What is the username? What's the lab Number? What type of file?

```
var fileName = "Spring2015_CS350_1.pdf"
```

What is the semester? Course? Section? File?

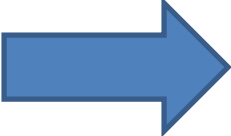
Username:

Would SIU850123456 be a valid input?

Strings Methods and properties

- Length
 - Every string has a length


```
var txt="Hello World!";  
document.write(txt.length);
```

**12**

Strings Methods and properties


- Accessing characters
 - To access a single character, use charAt call. First character starts at 0:

```
var str = "catty"  
alert( str.charAt(0) )
```

**c**

- You can also use index to access the character:

```
var str = "catty"  
alert( str[0] )
```

**c**

Strings Methods and properties

- `trim()`
 - Removes whitespace from both ends of a string

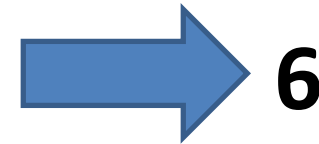
```
var str = "      Hello World!      ";  
alert(str.trim());
```



Strings Methods and properties

- `indexOf()`
 - This method returns the position of the first occurrence of a specified value in a string.

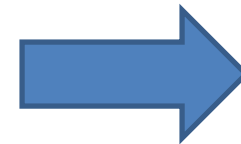
```
var str="Hello world";  
document.write(str.indexOf("w"));
```



6

- `substring()`
 - The `substring()` method extracts the characters from a string, between two specified indices, and returns the new sub string.

```
var Name ="Hello world";  
document.write(Name.substring(1,4));
```

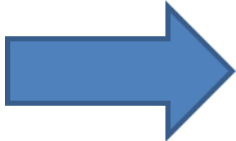


ello

Strings Methods and properties

- `toUpperCase()`
 - Converts a string to uppercase letters


```
var str = "Hello World!";  
var res = str.toUpperCase();
```



HELLO WORLD!

- `toLowerCase()`
 - Converts a string to lowercase letters

```
var str = "Hello World!";  
var res = str.toLowerCase();
```




hello world!

Strings Methods and properties

- `lastIndexOf()`

- Returns the position of the last found occurrence of a specified value in a string


```
var str = "Hello world";  
document.write(str.lastIndexOf("o"));
```

**7**

- `replace()`

replaces the matched substring with a new substring


```
var str = "Hello world";  
document.write(str.replace(' ', '_'));
```

**Hello_world**


Strings Methods and properties

- `isNaN()`
 - This function returns true if the value is “Not a Number”, and false if not.


```
var str = "Hello world";  
document.write(isNaN(str));
```

**true**

```
var str = "123";  
document.write(isNaN(str));
```

**false**

```
var str = "4/22/2014";  
document.write(isNaN(str));
```

**true**

Strings Methods and properties

- `isNaN()`

```
var str = "CS350";
```

```
document.write(isNaN(str.charAt(2))); ➡ false
```

```
document.write(isNaN(str.charAt(1))); ➡ true
```

String Properties and Method

var Name = "Computer Science 2015";	
Name.trim()	Computer Science 2015
Name.length	21
Name.charAt(2)	m
Name.indexOf("S")	9
Name.substring(12,15)	enc
Name.toLowerCase()	computer science 2015
Name.toUpperCase()	COMPUTER SCIENCE 2015
Name.lastIndexOf("e")	15
Name.replace(" ", "_")	Computer_Science_2015
isNaN(Name)	True
isNaN(Name.charAt(5))	True

Lab 7: Parse the Filename (15 Points)

- Given the name of a file, determine the Semester, Year, Course, Section and File Type as shown below
- `var fileName = "Fall2015_CS350_1.pdf"`
- Display the following result

Semester: **fall**

Year: **2015**

Program: **CS**

Course Number: **350**

Section: **1**

File Type: **pdf**

Test your code with the following file names:

1. Summer2015_CS412_940.pdf
2. Fall2012_CS221_1.pdf
3. Fall2013_CS391G_940.pdf

Lab 8 : Using a table to display results (10 Points)

- Prompt the user to inform the start number
- Prompt the user to inform the end number
- Calculate the squares and the cubes of all numbers within the range informed by the user
- You must create one function to calculate the Square and one function to calculate the Cube inside the script file

Number	Square	Cube
5	25	125
6	36	216
7	49	343
8	64	512
9	81	729
10	100	1000
11	121	1331
12	144	1728
13	169	2197
14	196	2744
15	225	3375