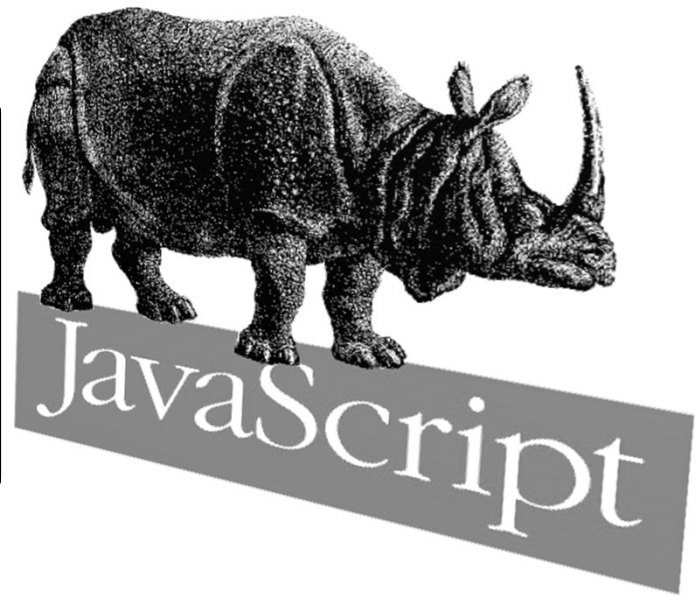


# JAVASCRIPT

## -- EventHandler --



Week IX

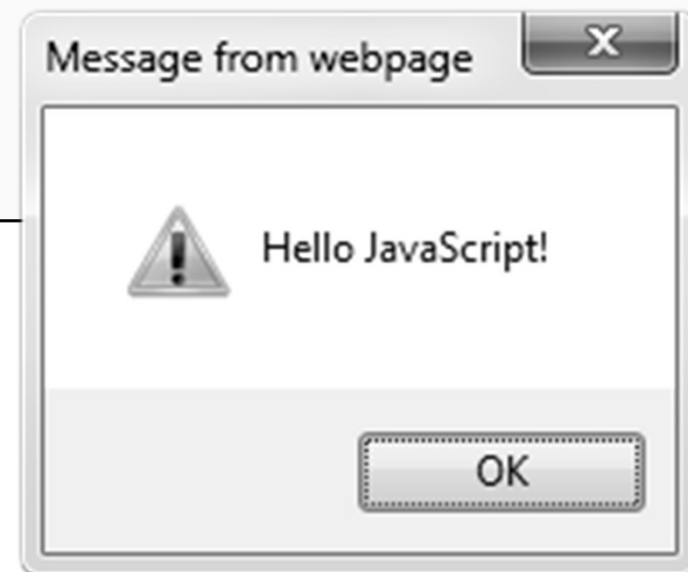
Static Web Programming  
Semester 1

# First Simple Script

```
<html>

<body>
  <script type="text/javascript">
    alert('Hello JavaScript!');
  </script>
</body>

</html>
```



# Another Simple Script

```
<html>

<body>
  <script type="text/javascript">
    document.write( 'Learn JavaScript!' );
  </script>
</body>

</html>
```



# Event Handler

- Event Handler is a set of code which will be executed when a certain behaviour is performed, e.g. mouse click or closing the browser window.
- Syntax:  
***eventhandler\_name= “set of code”***
- Set of code may contains a number of statements, separated by semicolon.

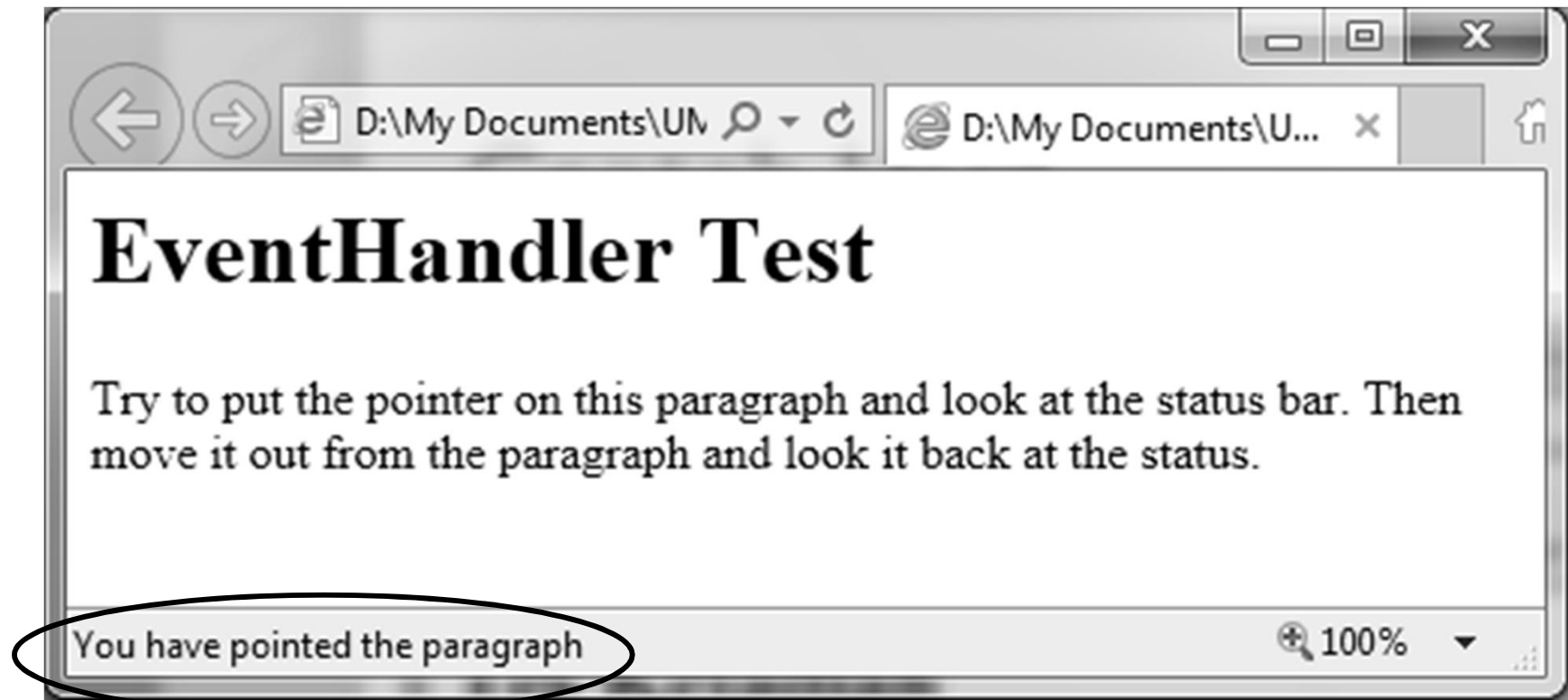
# General EventHandler

Event	Description
onchange	An HTML element has changed
onclick	User click the HTML element
onmouseover	User move the cursor over an HTML element
onmouseout	User move the cursor out from an HTML element
onkeydown	User press a keyboard button
onload	Browser has finished loading the webpage

# Example of EventHandler

```
<body>
<h1>EventHandler Test</h1>
<p onMouseOver = "window.status = 'You have
                    pointed the paragraph';
                    return true";
    onMouseOut = "window.status = '';
                    return true";>
    Try to put the pointer on the following
    link and look at the status bar. The move
    it out from the link and look it back at
    the status.
</p>
</body>
```

# On the page



# Data Entry

- JavaScript has mechanism in offering users to entry data on a window.
- Entry data uses “prompt” command.
- If a user click OK, then the JavaScript code will do the process.

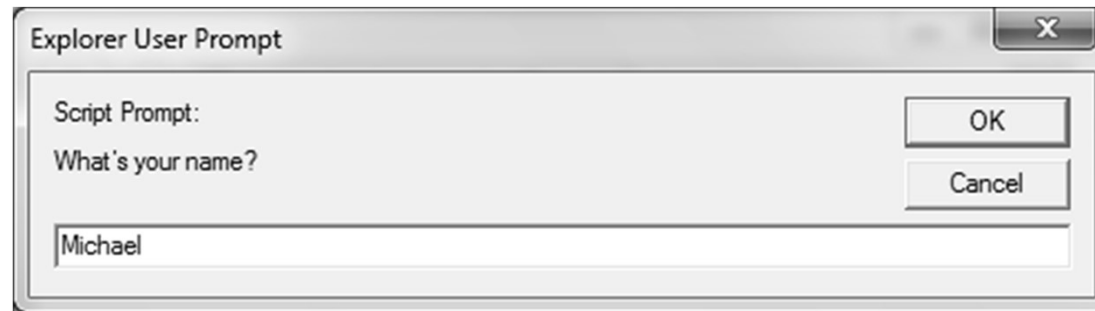


# Example of Data Entry

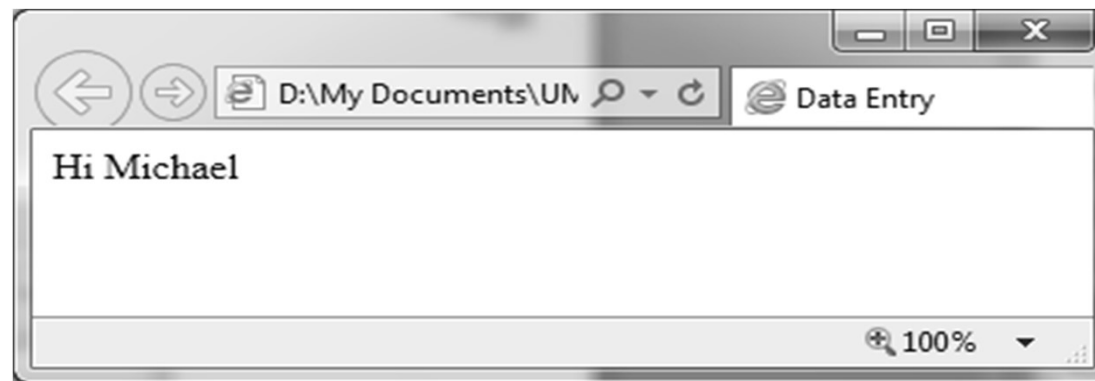
```
<html>
<head>
  <title>Data Entry</title>
</head>
<body>
  <script type="text/javascript">
    var name=prompt("What's your
                      name?");
    document.write("Hi "+name);
  </script>
</body>
</html>
```

# On the page

- Prompt



- Executed



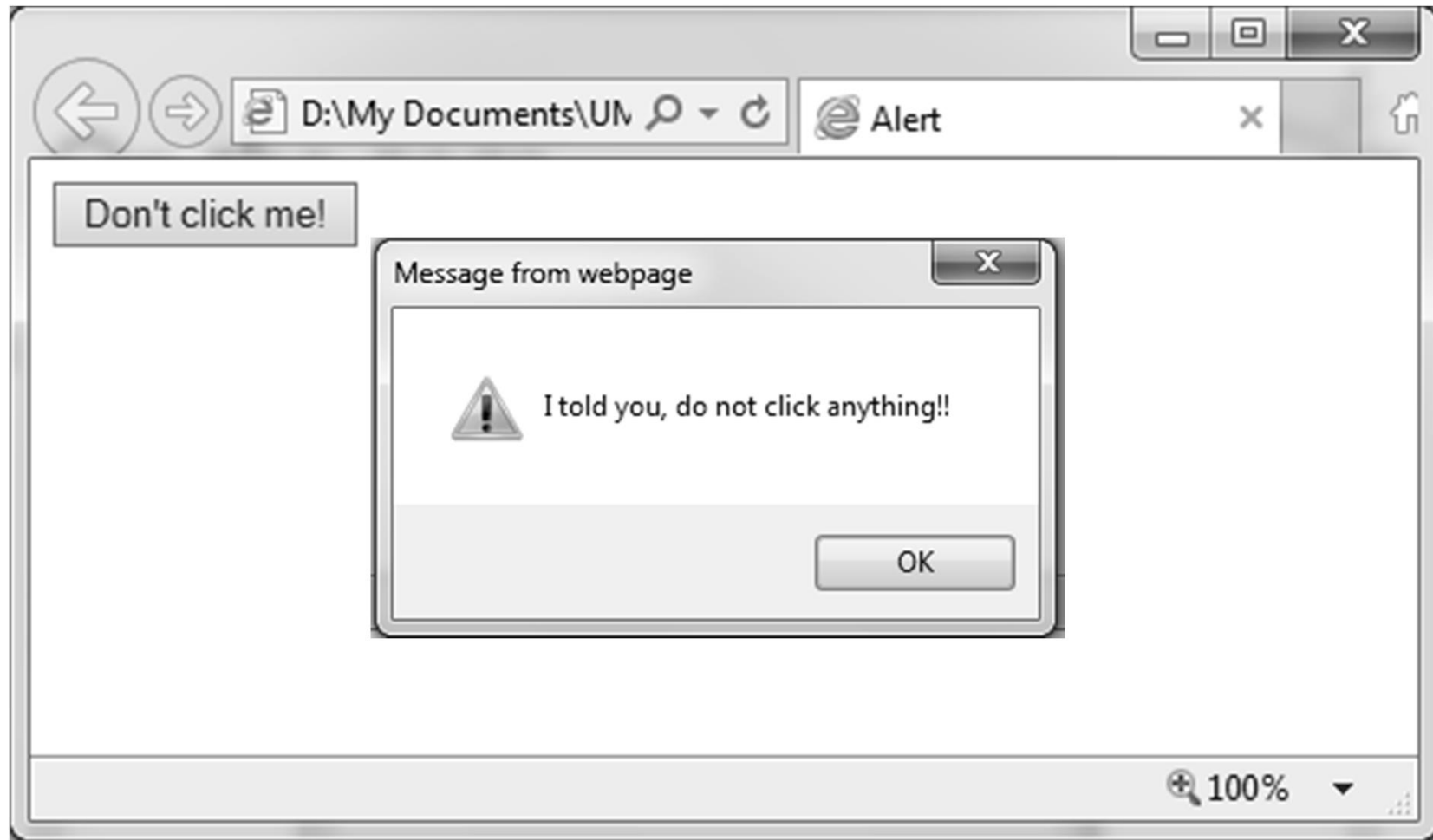
# Warning Window

- Warning window in Javascript is used to inform the result of the action done by users.
- Action could be data entry, eventhandler, etc.

# Example

```
<html>
<head>
  <title>Alert</title>
</head>
<body>
  <script type="text/javascript">
    window.alert("Never click
    anything on the page!");
  </script>
  <button onclick="window.alert('I
    told you, do not click
    anything!!')">Don't click me!
  </button>
</body>
</html>
```

# On the page



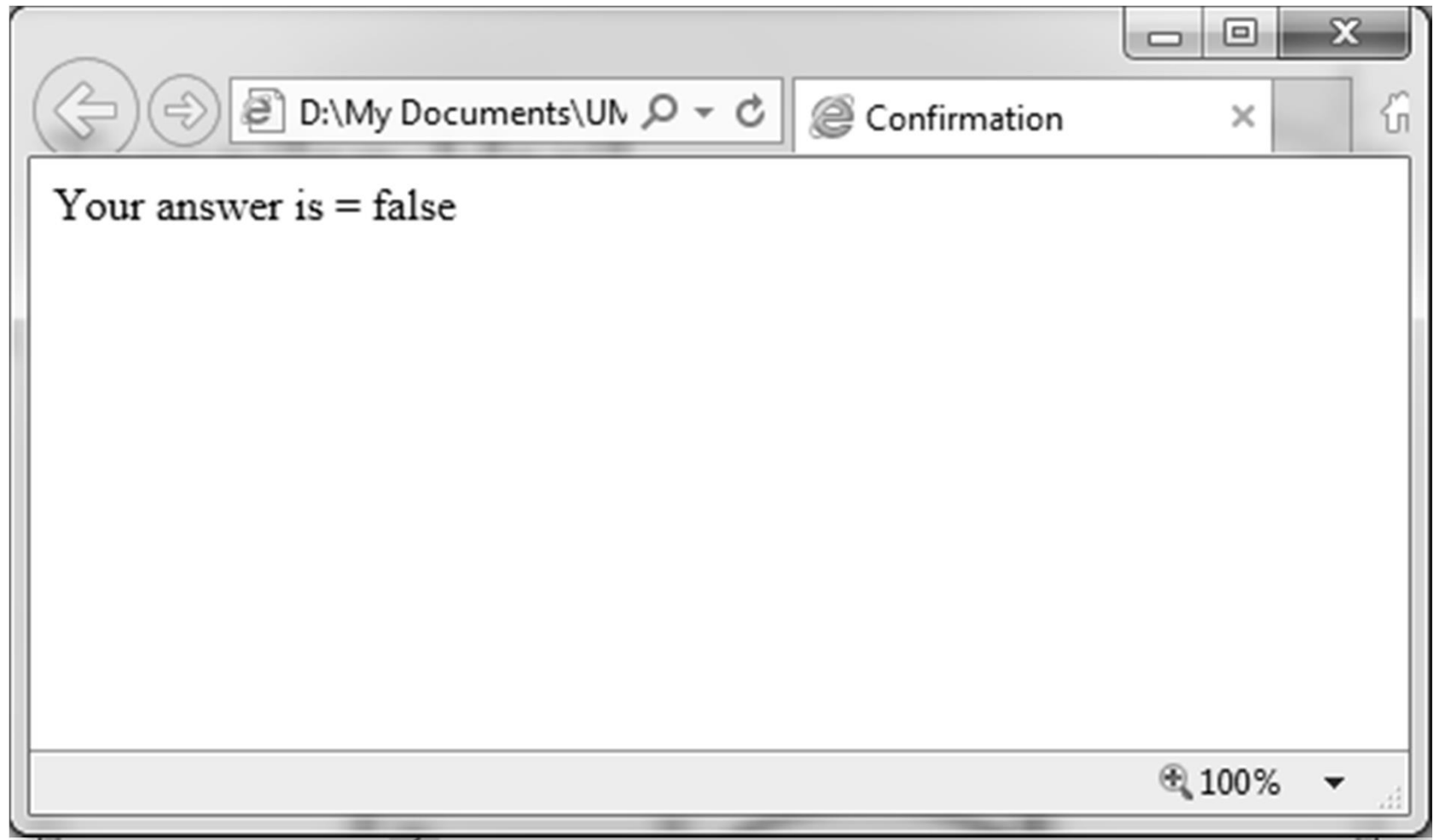
# Confirmation Window

- Confirmation window in Javascript is used to ask whether the action is true or false.

# Example

```
<html>
<head>
  <title>Confirmation</title>
</head>
<body>
  <script type="text/javascript">
    var answer=window.confirm("Do
      you love Javascript?");
    document.write("Your answer is =
      " +answer);
  </script>
</body>
</html>
```

# On the page





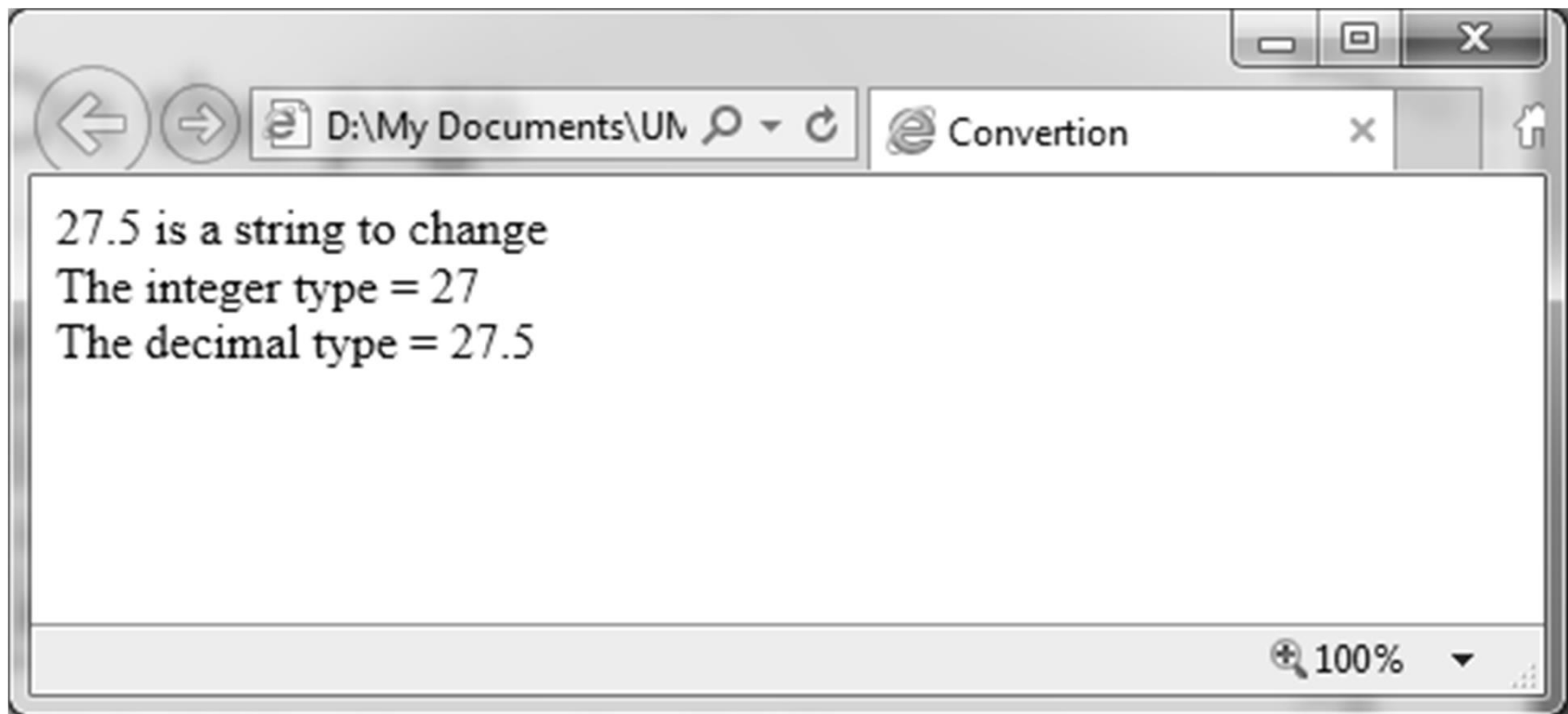
# Data Type Conversion

- Converting string to integer :  
**parseInt()**
- Converting string to real :  
**parseFloat()**

# Example

```
<body>
  <script type="text/javascript">
    var number="27.5";
    document.write("27.5 is a string to
      change<br>");
    document.write("The integer type = "
      +parseInt(number)+"<br>");
    document.write("The decimal type = "
      +parseFloat(number));
  </script>
</body>
```

# On the page



# Operators

Operator	Desc	Priority
+	Sum	3
-	Substract	3
*	Multiply	2
/	Divide	2
%	Modulus	2
++	Increment	1 (in front of variabel) 4 (behind variabel)
--	Decrement	1 (in front of variabel) 4 (behind variabel)

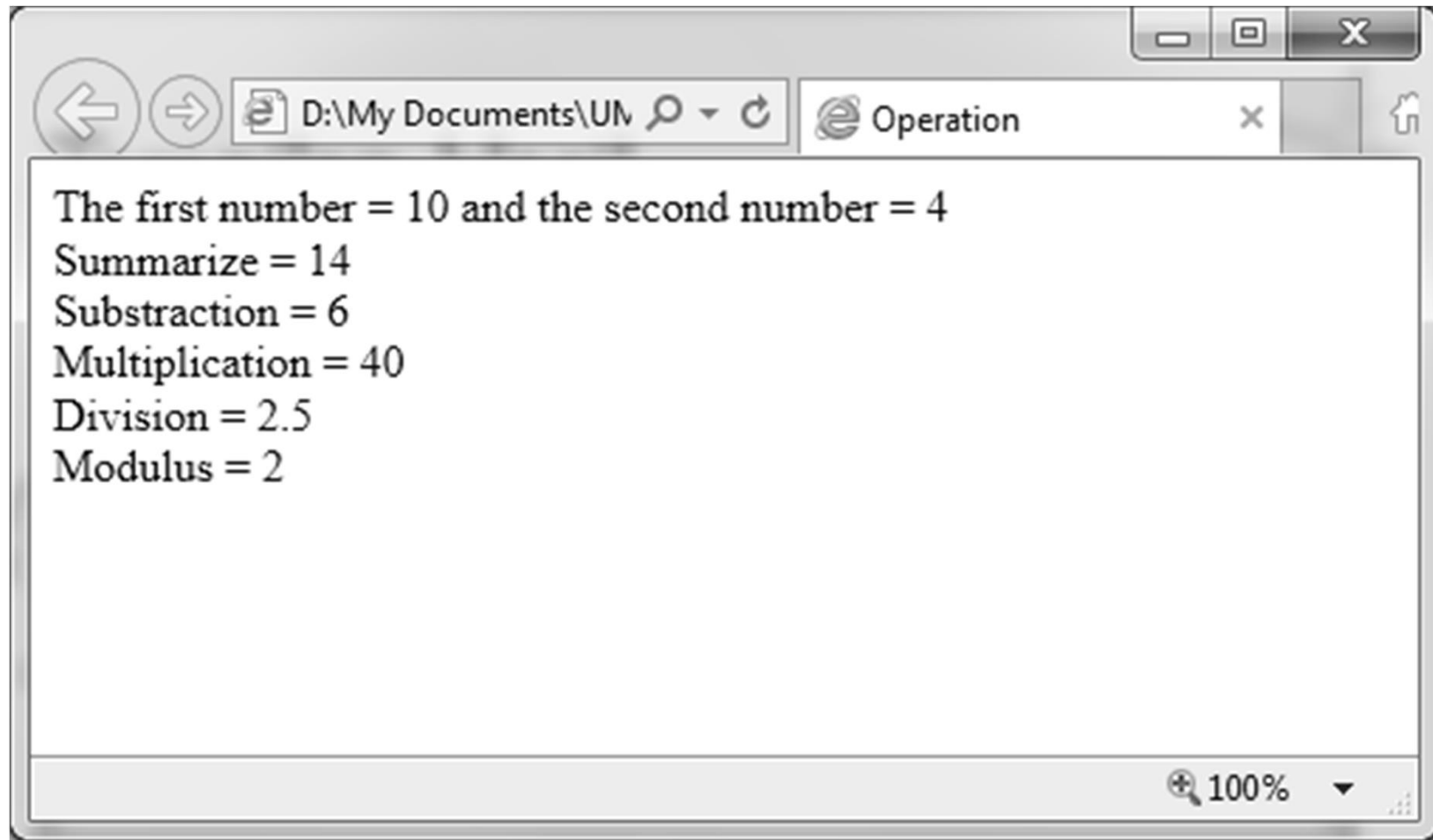
# Operators

Operator	Example	Value of x	Value of y
+	<code>x=y+2</code>	9	7
-	<code>x=y-2</code>	5	7
*	<code>x=y*2</code>	14	7
/	<code>x=y/2</code>	3.5	7
%	<code>x=y%2</code>	1	7
++	<code>x=++y</code>	8	7
	<code>x=y++</code>	7	7
--	<code>x=--y</code>	6	7
	<code>x=y--</code>	7	7

# Example

```
<body>
  <script type="text/javascript">
    var num1=parseInt(prompt("Entry the first number = "));
    var num2=parseInt(prompt("Entry the second number = "));
    document.write("The first number = ",num1," and the second
                    number = ",num2,"<br/>");
    document.write("Summarize = ",num1+num2,"<br/>");
    document.write("Substraction = ",num1-num2,"<br/>");
    document.write("Multiplication = ",num1*num2,"<br/>");
    document.write("Division = ",num1/num2,"<br/>");
    document.write("Modulus = ",num1%num2,"<br/>");
  </script>
</body>
```

# On the page



# Comparison and Logic Operators



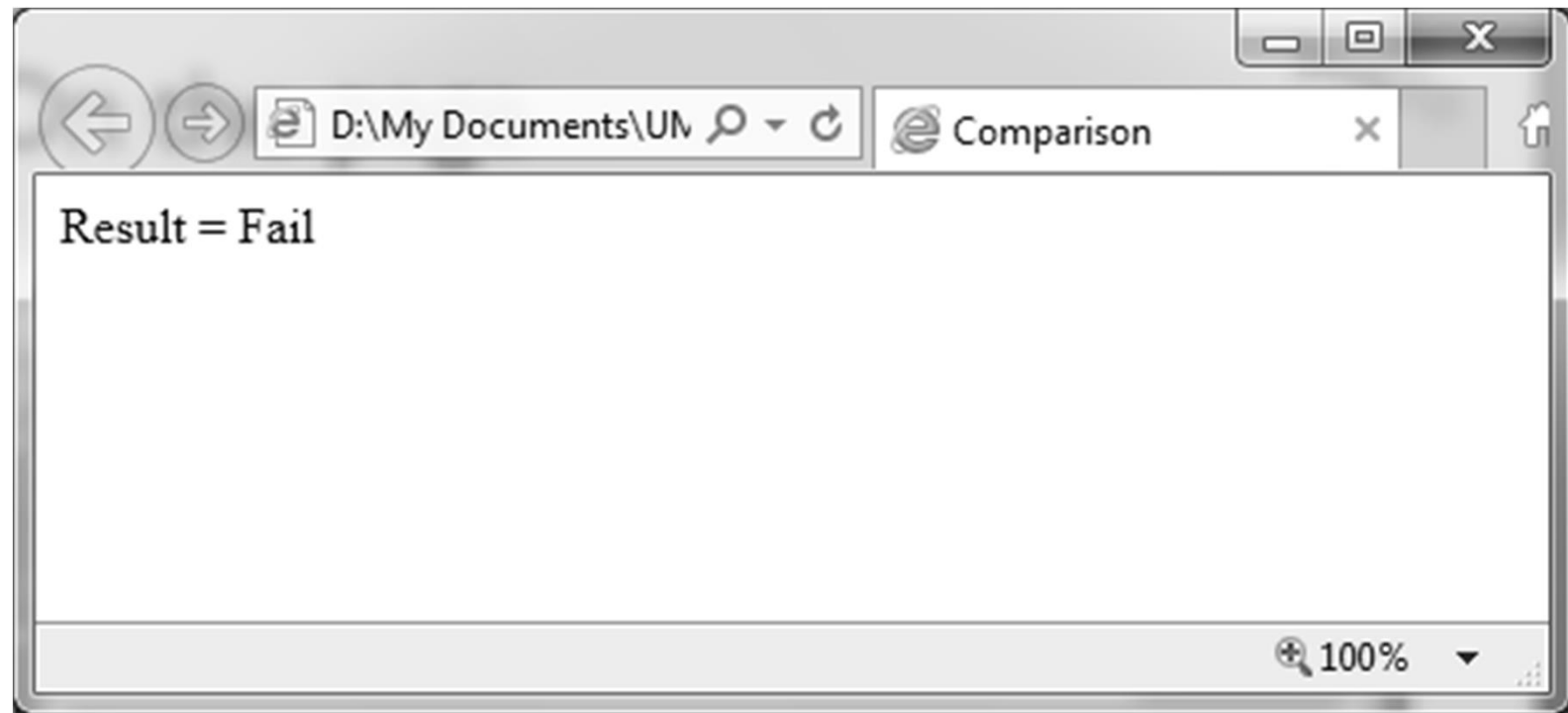
Operator	Desc	Category
==	Equals to	Comparison
!=	Inequals to	Comparison
<	Less than	Comparison
<=	Less than or equals to	Comparison
>	More than	Comparison
>=	More than or equals to	Comparison
!	Not	Logic
&&	And	Logic
	Or	Logic
?	<i>Condition? True:False</i>	Comparison



# Example (Comparison)

```
<html>
<head>
  <title>Comparison</title>
</head>
<body>
  <script type="text/javascript">
    var number=parseInt(prompt("Put a number (0-
      100) = "));
    var result=(number>=60)?"Pass":"Fail";
    document.write("Result = ",result);
  </script>
</body>
</html>
```

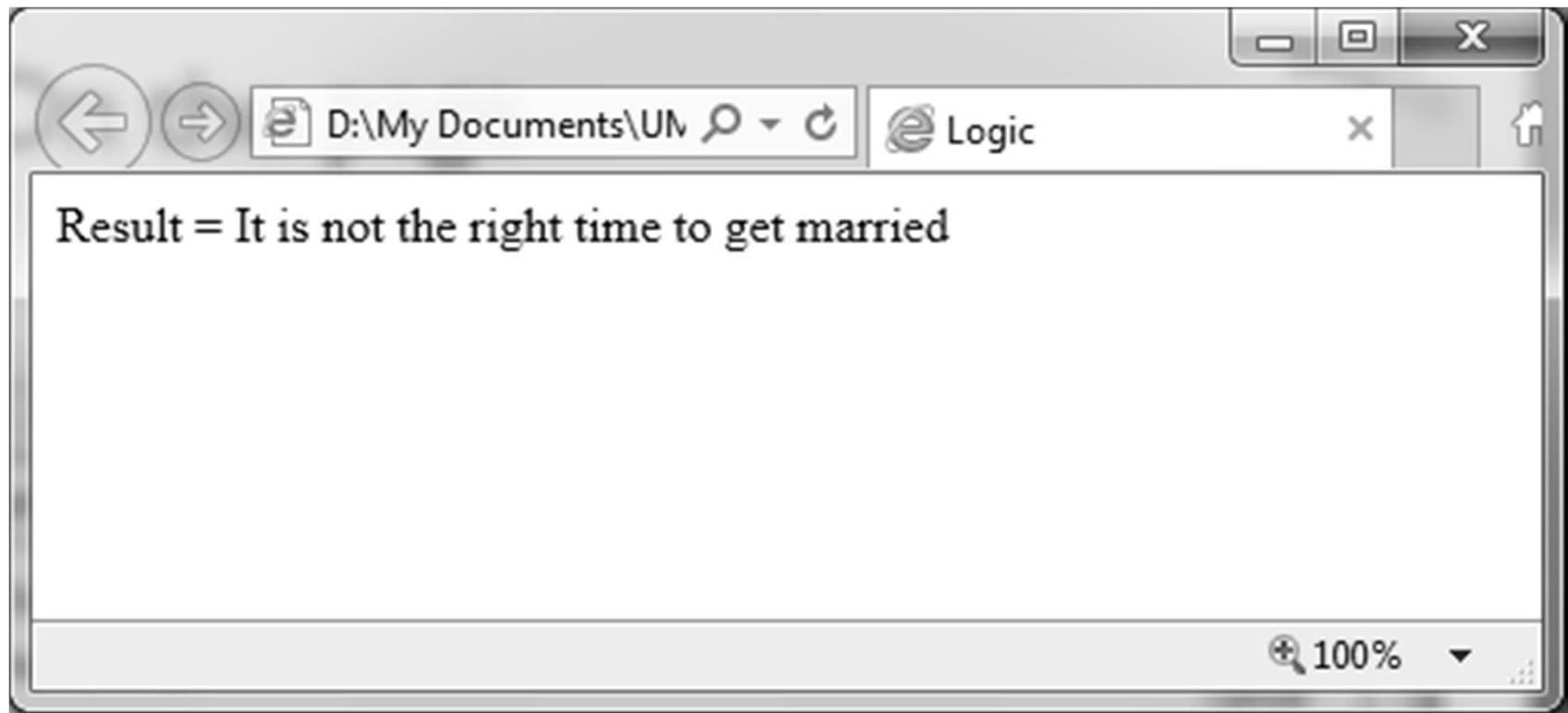
# On the page



# Example (Logic)

```
<html>
<head>
  <title>Logic</title>
</head>
<body>
  <script type="text/javascript">
    var age=parseInt(prompt("Input your age = "));
    var result=(age>=20&&age<=27)?"It is the right
      time to get married":"It is not the right
      time to get married";
    document.write("Result = ",result);
  </script>
</body>
</html>
```

# On the page



# EXERCISE!!

D:\My Documents\UMS\MK Reguler\Pemrograman Web\Latihan\20151\Javascript\Exercise\_01.html - Notepad++

File Edit Search View Encoding Language Settings Macro Run Plugins Window ?

Contoh\_02.html Latihan\_Tugas\_01.html Exercise\_01.html

```
7 <hr/>
8 <script>
9     var price1=parseInt(prompt("Price 1 = "));
10    var price2=parseInt(prompt("Price 2 = "));
11    var price3=parseInt(prompt("Price 3 = "));
12    var price4=parseInt(prompt("Price 4 = "));
13    var price5=parseInt(prompt("Price 5 = "));
14
15    document.write("Price 1 = ",price1);
16    document.write("<br/>Price 2 = ",price2);
17    document.write("<br/>Price 3 = ",price3);
18    document.write("<br/>Price 4 = ",price4);
19    document.write("<br/>Price 5 = ",price5);
20    document.write("<hr/>");
21
22    var subtotal=price1+price2+price3+price4+price5;
23    document.write("Sub Total = Rp ",subtotal);
24    var result=(subtotal>=500000)?"Yes, you get discount 5%":"No, you get no discount";
25    document.write("<br/>Discount = ",result);
26    var disc=(subtotal>=500000)?subtotal*0.05:subtotal*0;
27    document.write("<br/>Disc amount = Rp ",disc);
28    document.write("<hr/>");
29    var total=subtotal-disc;
30    document.write("<br/>Total price you should pay = Rp ",total);
31 </script>
32 </body>
```

Hyper Text Markup Language file

length: 1113 lines: 33

Ln: 20 Col: 37 Sel: 0 | 0

Dos\Windows UTF-8 INS

Exercise

## Price Calculation

---

Price 1 = 1000  
Price 2 = 4000  
Price 3 = 50200  
Price 4 = 30400  
Price 5 = 3400

---

Sub Total = Rp 89000  
Discount = No, you get no discount  
Disc amount = Rp 0

135%