



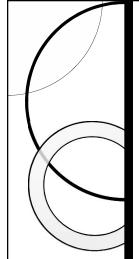
# **JAVASCRIPT**

- Function and Form Processing -

Week XII

Static Web Programming Semester 1

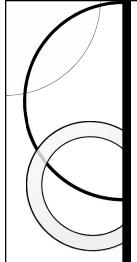






# Function in Javascript

- A JavaScript function is a block of code designed to perform a particular task.
- A JavaScript function is executed when "something" invokes it (calls it).
- A function can be called by typing the function name and followed by parameter as an option.
- A parameter in a function is optional.



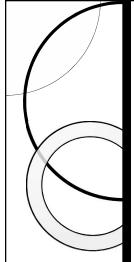


# Syntax

• Syntax of javascript function:

```
function name(parameter1, parameter2,
parameter3)
{
    code to be executed
}

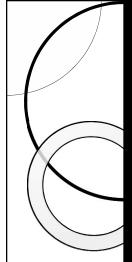
//function is called
... function_name(parameter value)...
```





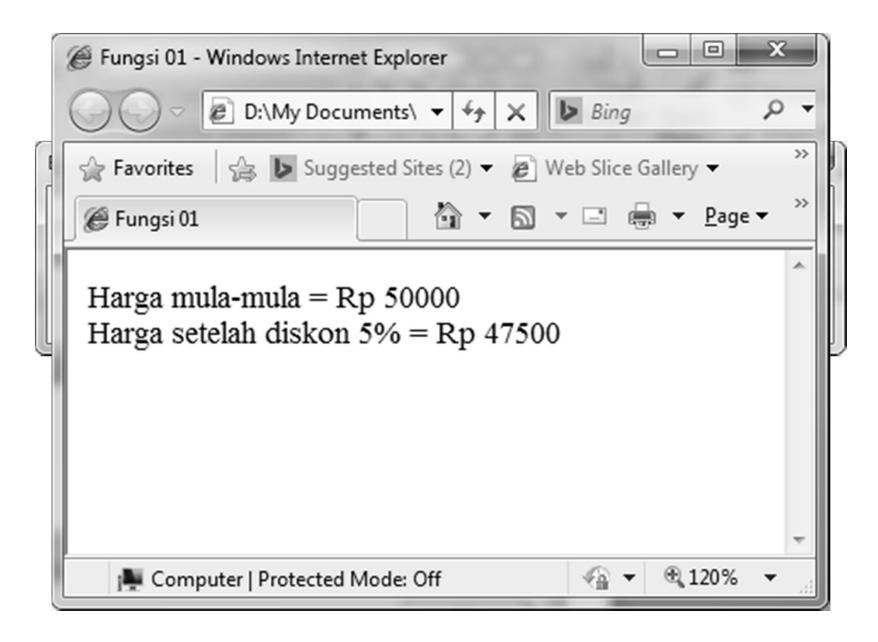
# Example:

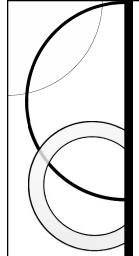
```
<body>
<script type="text/javascript">
   function discount(price)
      var disc;
      disc = 0.05 * price;
      total = price - disc;
      return total;
   var harga = prompt("Masukkan harga awal (Rp) :
   '', 0);
   document.write("Harga mula-mula = Rp "+harga)
   document.write("<br/>Harga setelah diskon 5% = Rp
   " + discount(harga));
</script>
</body>
```





#### On browser

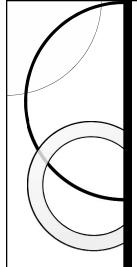






#### Return Value Statement

- In a function, return value is used to return the value to the caller code.
- However, a return value is not compulsory in a function.

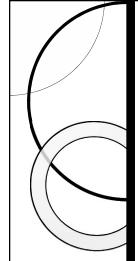


# Syntax of Function with Return Value

• Syntax :

```
function name(parameter)
{
    code to be executed;
    return value;
}

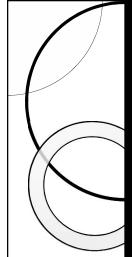
//function is called
... name(parameter value)...
```





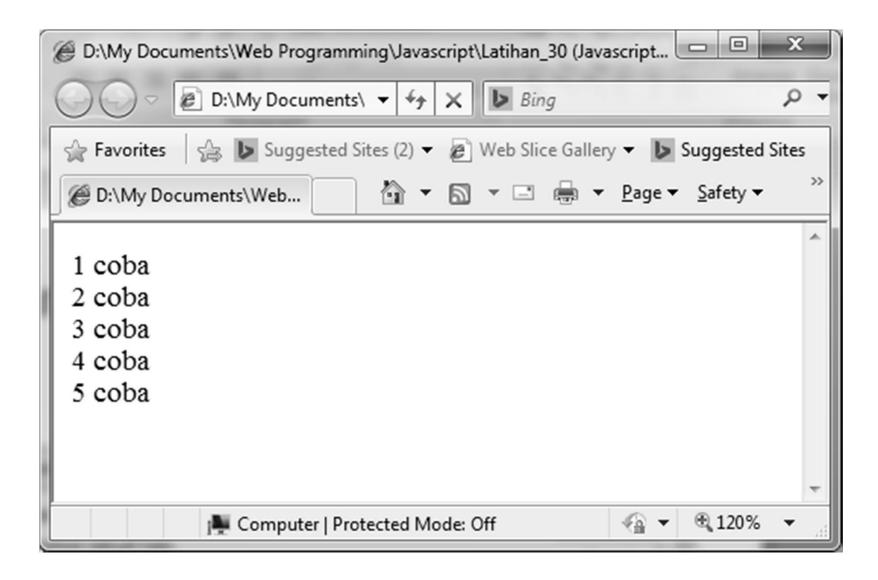
# Example without return:

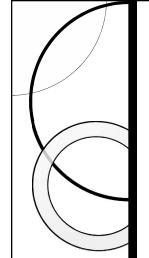
```
<body>
 <script type="text/javascript">
 function cetakTeks(x, teks)
     document.write(x+" "+teks + "<br/>");
 var kata = prompt("Masukkan sebuah kata ","");
 var i;
 for(i=1; i<=5; i++)
     cetakTeks(i, kata);
 </script>
</body>
```





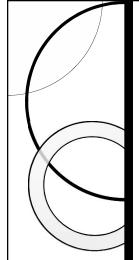
#### On browser







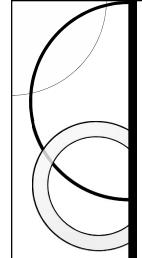
# **Exercise** I





### Question

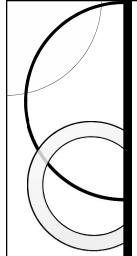
• Create a function to define whether an input number is odd or even.





#### FORM PROCESSING

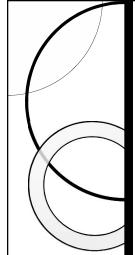
 In this part, it will be explained how to process a data input from a form component, such as textbox, textarea, combo box, radio, button, etc.





#### Form

 Form tag in HTML have syntax as follows:

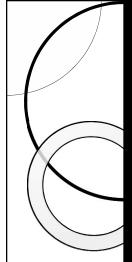




# Example:

 To read the input value from a form component using document object as follows:

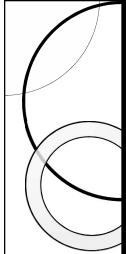
document.formname.componentname.value;





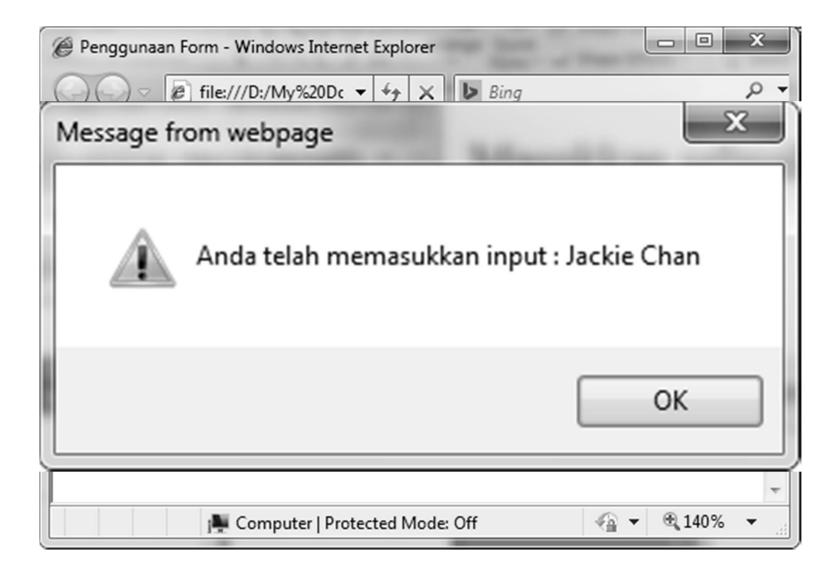
# Example:

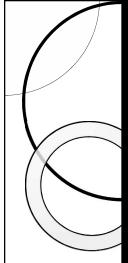
```
<head>
<title>Penggunaan Form</title>
  <script type="text/JavaScript">
  function baca()
    var nilai = document.formku.input.value;
    alert("Anda telah memasukkan input : " + nilai);
  </script>
</head>
<body>
  <h1>Baca Input</h1>
  <form name="formku">
  Masukkan sebuah input
  <input type="text" name="input">
  <input type="button" value="OK" onclick="baca()">
  </form>
</body>
```





#### On browser

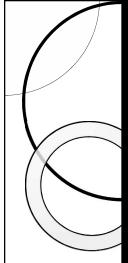






# Example:

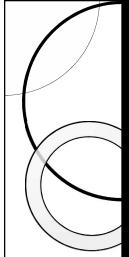
```
<head>
<title>Kalkulator Sederhana</title>
<script type="text/javascript">
   function hitung()
     var bil1 = parseFloat(document.formku.bil1.value);
     var bil2 = parseFloat(document.formku.bil2.value);
     var op = document.formku.operasi.value;
     var hasil;
      if (op=="jumlah") hasil = bil1+bil2;
      else if (op=="kurang") hasil = bil1-bil2;
      else if (op=="kali") hasil = bil1*bil2;
      else if (op=="bagi") hasil = bil1/bil2;
      else hasil = "-Pilih Operasi-";
      document.formku.result.value=hasil;
</script>
</head>
```





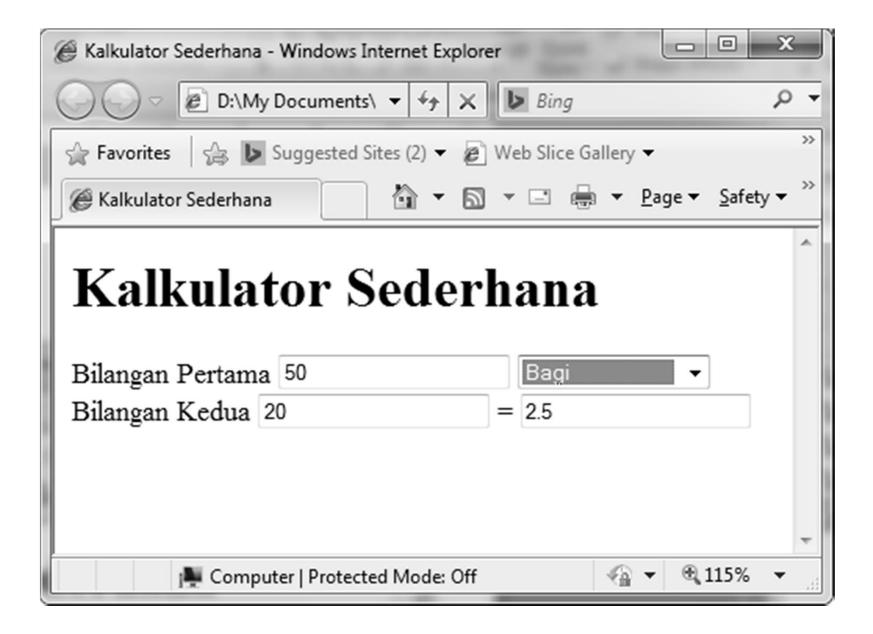
#### Cont':

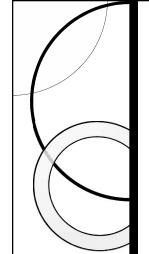
```
<body>
  <h1>Kalkulator Sederhana</h1>
  <form name="formku">
     Bilangan Pertama
     <input type="text" name="bil1"></input>
     <select name="operasi" onchange="hitung()">
        <option value="plh">--Pilih Operasi--</option>"
        <option value="jumlah">Jumlah
        <option value="kurang">Kurang</option>
        <option value="kali">Kali
        <option value="bagi">Bagi</option>
     </select>
     Bilangan Kedua
     <input type="text" name="bil2"></input>
     <input type="text" name="result"></input>
  </form>
</body>
```





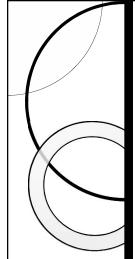
#### On browser







# Exercise 2

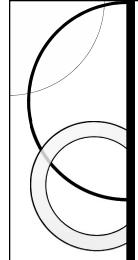




#### Question

Modify the question from exercise I using form:







### Question

2. Create a simple calculator using function as follows:

€ Kalkulator Sederhana		<u></u> ▼ <u>P</u> age ▼ <u>S</u>	afety ▼ <sup>**</sup>
Kalkulator Sederhana			
Input Bilangan 1 : Input Bilangan 2 : Hasil Operasi :			E
+ - x /			-
j ■ Computer   Prote	cted Mode: Off	⊕ ▼ ● 130	)% ▼ ,,;