



Announcements

Project 2 is assigned today



Unannounced Quiz 2

Take out a sheet of paper and stow everything else, including phones, CD players, calculators, computers, books, notes ...



Unannounced Quiz 2

Answer All Questions:

1. Give an JavaScript assignment statement that adds 1 to variable y.
2. Write one million as a JavaScript number.
3. What is the result JavaScript expressions:
 - a) 5 + 5
 - b) '8' + '9'
 - c) 1 + '5'



Programming Techniques

The best way to learn programming is to try it



Begin Writing JS

Step 1. Build HTML structure and first command. Check

* Begin by inputting a number

```

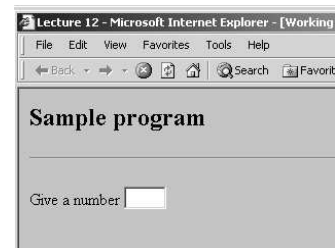
<html>
<head>
<title>Lecture 12</title>
</head>
<body>
<h2>Sample Program</h2>
<form name="sample">
Give a number
<input type="text" name="x1" size=3>
</form>
</body>
</html>

```



Result

Forms allow for screen-based input. Forms also provide the means of giving text output ... the output window is, curiously, called an "input"





Focus on the Form

```
<form name="sample">
  Give a number
  <input type="text" name="x1" size=3>
  Adding 2 to it
  <input type="text" name="x2" size=3>
</form>
```

The action comes in response to events. When the user enters data and then Changes position, there is a change event.

Sample program

Give a number Adding 2 to it



The Big Event

When programming the action for event handlers, always ask, "What do I want to happen on this event?"

- * In this case, get the value out of the x1 window, add 2 to it and put the result into the x2 window for display.

x2.value = x1.value + 2

or

onChange=" x2.value = x1.value + 2"



The Result

```
<form name="sample">
  Give a number
  <input type="text" name="x1" size=3
    onChange=" x2.value = x1.value+2 " >
  Adding 2 to it
  <input type="text" name="x2" size=3>
</form>
```

What happened?

Sample program

Give a number Adding 2 to it



A Tiny Trick

```
<form name="sample">
  Give a number
  <input type="text" name="x1" size=3
    onChange=" x2.value = (x1.value+1)+2 " >
  Adding 2 to it
  <input type="text" name="x2" size=3>
</form>
```

Sample program

Give a number Adding 2 to it



JavaScript Processed 1st

JavaScript is processed while browser is parsing the HTML, i.e. figuring out the command's structure

```
<html>
  <head>
    <title>Lecture 12</title>
  </head>
  <body>
    <h2>Sample Program</h2>
    
  </body>
</html>
```

Sample program



Ask JavaScript To Write

document.write() puts HTML on page

```
<h2>Sample program</h2><h1>
  
  <script LANGUAGE="JavaScript">
    document.write("<img src='humpback.gif'>");
  </script>
  Sample program
```





Project 2: Exercise



Project 2: Exercise

Larry's Memory Bank
 a convenient table of all the computations I can never remember
 Wed Feb 05 14:34:08 2003

Celsius to Fahrenheit	Celsius	Fahrenheit
Fahrenheit to Celsius	Fahrenheit	Celsius
Body Mass Index	English	Metric
Electronic Coin Flip	Flip	Outcome
Pick A Random Number From 1 To 10	Pick	Outcome from the range
Weight In Gold	Weight	lbs Worth As Gold

IMPORTANT LINKS
 References ...
 Classes ...

I'm 686668848 seconds old. What am I doing with my life?
 Last Modified: 02/02/2003 01:15:32



Orange Concentrate



Project 2 Plan

Four Parts

- Exercise with Memory Bank
- Create brown keys
- Create white pattern
- Generate pattern & finish

Orange Concentrate

New View Check Clear

UP DN Squares: 3
 Watch Time: 5 Seconds UP DN