Lecture 2

Browser Popups, Input from Browser, Switch, Loops

While, for, do-while

Keyword break and continue



Browser Popups

alert(<some string>)

prompt(<some string>)

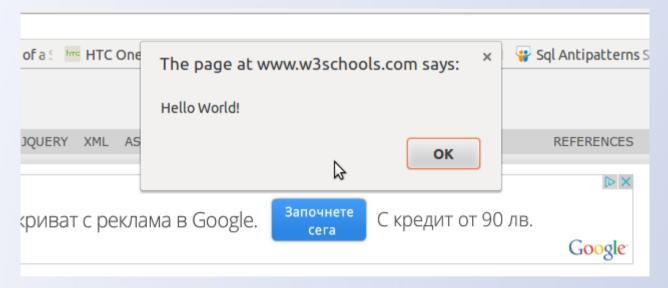
confirm(<some string>)



Alert Browser Popup

alert(<some string>) - displays a dialog box in the browser with the string specified and OK button.

Usage – when we want to show something to the user.





Prompt Browser Popup

prompt(<some string>) - displays a dialog box with the string specified and a text box waiting for input, plus OK and Cancel. Returns null on Cancel and the value of the texbox.

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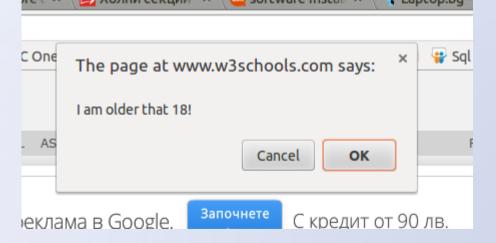
Confirm Browser Popup

confirm(<some string>) - displays a dialog box with the string specified and OK and Cancel buttons.

Returns *true* if the user presses OK and *false* if the pressed button is Cancel.

We use it when we want some confirmation from the

user.





Print in the console by given number the matching day of the week, for example: 1 – monday, 2- tuesday, etc. and 'Error' when there is no matching week day for the given number. The solution with if – else control statement:

```
var day = prompt('Enter a day of the week!');
if (day == 1) {
    alert('Monday');
} else if (day == 2) {
    alert('Tuesday');
} else if (day == 3) {
    alert('Wednesday');
}
//....
else {
    alert('Enter number between 1 and 7');
}
```

Switch Solution

```
var day = prompt('Enter day of the week');
// switch uses === operator for comparison
day = parseInt(day);
switch (day) {
   case 1:
      alert('Monday');
      break;
   case 2:
      alert('Tuesday');
      break;
   case 3:
      alert('Wednesday');
      break;
   //.....
   default:
      alert('Enter number between 1 and 7');
      break;
```

Switch Syntax

```
switch(expression) {
   case n:
      code block
      break;
   case n:
      code block
      break;
   default:
      default code block
}
```



Print all the numbers

- From 1 to 5
- From 1 to 1000
- From 1 to n
- From n to m



What is a loop?

- A loop is a structure that allows sequence of statement to be executed more times in a row
 - Loops have a boolean condition and a block of code for execution. While the condition is true, the block is being executed.
 - A loop that never ends is called an infinite loop



While

While the condition is true, the block is being executed.



While

Counter initialization

Boolean condition.

If i > 100, the next block will be skipped

```
var i = 1;
while (i <= 1000) {
   console.log(i);
   i++;
}</pre>
```

Block of code repeatable execution



do-while

 Similar to while loop but always enters the execution at least once because Condition is after the execution

Execute the block of code

```
do {
    console.log(i);
    i++;
} while (i <= 1000)</pre>
```

Check if i<=1000. If it's true, repeat once more.



For loop

- Consists of
 - Initialization
 - condition
 - Update statement
 - body

If i becomes equal or bigger than the length of the array, the loop will quit.

Initialization

Update statemen

```
for (var i = 0; i < 10; i++) {
   console.log(i);
}</pre>
```

Body



 Try to quit a for-loop during the execution of the repeatable block

 One possible to solution is to set the counter to a value which will make the boolean condition quit the loop....but...



Break

- Break is a keyword
- A statement by itself
- It doesn't require anything else
- It stops the execution of the loop

The loop will quit when i is equal to 7

```
for (var i = 0; i < 50; i++)
    if (i == 7) {
        Break;
    }
}</pre>
```

 Try to omit specific block of code in the body – for example sum all numbers between 1 and 100 but omit all numbers between 51 and 74

 Encapsulating the code in if-else statements may be used. Although for more complicated structures should be used for more complicated cases



Continue

- Continue is a keyword
- A statement by itself
- It doesn't require anything else
- It stops the current iteration of the loop, but doesn't stop the loop

```
for (var i = 0; i < args.length; i++) {
   if (i > 51 && i < 71) {
      continue;
   }
   sum = sum + i;
}</pre>
If i is between 51 na 74,
   the loop will skip
all statements after continue.

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```

Summary

- Browser popups
- Switch statement
- Why do we use loops?
- What does a loop consist of?
- Difference between while and do-while?
- How to use for loop?
- How to terminate a loop?
- How to stop the current iteration?