

Introduction to Java Script Other concepts

By

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Errors & Exceptions Handling

- There are three types of errors in programming:
 - (a) Syntax Errors
 - (b) Runtime Errors and
 - (c) Logical Errors

Solution
?

- Runtime errors, also called **exceptions**, occur during execution (after compilation/interpretation).

- Exceptions also affect the thread in which they occur, allowing other JavaScript threads to continue normal execution.

The try...catch...finally Statement

- JavaScript implements the *try...catch...finally* construct as well as the throw operator to handle exceptions.

- `<script type = "text/javascript">`
- `<!--`
- `try {`
- `// Code to run`
- `[break;]`
- `}`
- `catch (e) {`
- `// Code to run if an exception occurs`
- `[break;]`
- `}`
- `[finally {`
- `// Code that is always executed regardless of`
- `// an exception occurring`
- `}]`
- `//-->`
- `</script>`

*The **try** block must be followed by either exactly one **catch** block or one **finally** block (or one of both).*

18_exceptio.html

The onerror() Method

- The **onerror** event handler provides three pieces of information to identify the exact nature of the error –
 - **Error message** – The same message that the browser would display for the given error
 - **URL** – The file in which the error occurred
 - **Line number**– The line number in the given URL that caused the error

19_Exeption2.html

Form Validation

- **Need ?**
- **Solution ?**
- **Basic Validation** – First of all, the form must be checked to make sure all the mandatory fields are filled in. It would require just a loop through each field in the form and check for data.
- **Data Format Validation** – Secondly, the data that is entered must be checked for correct form and value. Your code must include appropriate logic to test correctness of data.

- *WAP program to perform basic validation and data format validation.*

Animation

- Need ?

- JavaScript provides the following two functions to be frequently used in animation programs.
 - **setTimeout(function, duration)** – This function calls **function** after **duration** milliseconds from now.
 - **setInterval(function, duration)** – This function calls **function** after every **duration** milliseconds.
 - **clearTimeout(setTimeout_variable)** – This function calls clears any timer set by the **setTimeout()** functions.

Animation

- Manual Animation
 - 20_Animation1.html
- Automated Animation
 - 21_Animation2.html
- Rollover with a Mouse Event
 - 22_Animation3.html

Debugging

- Need?
- Browser specific
- Students should reply through chat box



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Thank You



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