

**Experiment No. 05**

**Title:** Implement Javascript validation for Website Forms.

**Batch:****Roll No.:****Experiment No.:5**

**Aim:** To Implement Javascript validation for Website Forms.

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**Resources needed: Notepad++, Web Browser**

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### **Theory:**

JavaScript is a scripting language produced by Netscape for use within HTML Web pages. JavaScript is loosely based on Java and it is built into all the major modern browsers. JavaScript is a lightweight, interpreted programming language, Complementary to and integrated with Java , Complementary to and integrated with HTML , Open and cross-platform and is case sensitive.

Data validation is the process of ensuring that user input is clean, correct, and useful. Typical validation tasks are:

- Has the user filled in all required fields?
- Has the user entered a valid date?
- Has the user entered text in a numeric field?
- Most often, the purpose of data validation is to ensure correct user input.

Validation can be defined by many different methods, and deployed in many different ways.

- Server side validation is performed by a web server, after input has been sent to the server.
- Client side validation is performed by a web browser, before input is sent to a web server.

For example HTML form validation can be done by JavaScript. If a form field (fname) is empty, this function alerts a message, and returns false, to prevent the form from being submitted:

```
function validateForm() {  
  
    var x = document.forms["myForm"]["fname"].value;  
  
    if (x == "") {  
  
        alert("Name must be filled out");  
  
        return false;  
    }  
}
```

}

}

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**Activity:**

Add validations for the Website Forms Such as

- 1) Name should string
- 2) Roll number should a number
- 3) Email id should have @ and . in it
- 4) Telephone number should be a ten digit number.

**Students need to add various validations to their form input as per the requirement of the user interface.**

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**Results: (Program printout with output)**

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**Questions:**

- Q1) Why to carry out Validation at client side using scripting language?  
Q2) What is the difference between client side validation and server side validation?
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**Outcomes:****Conclusion: (Conclusion to be based on the outcomes achieved)**

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**Grade: AA / AB / BB / BC / CC / CD /DD**

Signature of faculty in-charge with date

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**References:****Books/ Journals/ Websites:**

- “Web technologies: Black Book”, Dreamtech Publications
  - <http://www.w3schools.com>
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