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7.4.BTCLH CSE

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WTL

## ASSIGNMENT NO.-3

**AIM :-** Write a program to design student registration form by using HTML, CSS having following fields username, email, phone No, password, confirm Password and write external code to achieve following validations.

### OBJECTIVES:-

- 1) To understand what is form validation.
- 2) To know its importance.
- 3) To learn how to implement various techniques to implement it.

### THEORY:-

1) Different types of form validation :-

a) Empty fields :-

If a form field is empty, the function alerts a message and return false, to prevent form being submitted.

b) It can also validate numeric i/p.

Eg:- Place a no. b/w 1 and 10.

c) If a form field is empty, the required attribute prevents this form <sup>from</sup> being submitted.

d) We can also do date validation. 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.



2) Different Client validations that can be performed on the form:

a) Built in Validation:-

- Use HTML5 form validation features.

- This validation generally doesn't require much JS.

i) required:- Specifies whether a form field needs to be filled.

ii) minlength and maxlength:- Specifies the max & min length of textual data.

iii) type:- Specifies the data needs to be an email address, or some other specific preset type.

iv) pattern:- Specifies a regular expression that defines a pattern the entered data needs to follow.

### FAQ'S

Q.1 What is Javascript?

i) Javascript is a scripting language or programming language that allows you to implement complex features on web pages. Every time a web page does more than just sit there and display static information.

ii) Displaying timely content updates, interactive maps, animated 2D/3D graphics can be done with JS.

iii) It is a language that enables you to create dynamically updating content, control multimedia, animate images.



Q2 Enumerate the difference between Java and Js?

Java

Javascript

i) Java is a strongly typed language and variable must be declared first to be in program.

i) Javascript is weakly typed language and have more relaxed syntax and rules.

ii) Java is an OOP language.

ii) Javascript is an object based scripting language.

iii) Java applications can run in any virtual machine (JVM) or browser.

iii) Javascript code is used to run only in the browsers.

iv) Objects of Java are class based even we can't make any programs in

iv) Javascript objects are prototype based.

v) Java has a thread based approach to concurrency.

v) Javascript has event based approach to concurrency.

Q3 What are Javascript datatypes?

Datatypes in Javascript are as follows:-

1) numbers :- eg: var length = 16

2) string :- var filename = 'Sam'

3) Object :- var n = { first name: 'Sam', last name: 'Curran' }

4) Boolean :- var y = true

5) undefined :- var av;



Q4 Write 3 reasons why form validations are important?

- i) You need form validation as a security measure. Forms are an easy target for hackers or attackers because they are connected to database somewhere.
- ii) Letting people put whatever they want into your form opens you up to SQL injection attacks.
- iii) Besides saving you from attacks, form validations also saves you from users entering non-valid data.

Q5 Explain 'required' attribute in HTML.

- 1) The required attribute is a boolean attribute.
- 2) When present, it specifies that an i/p field must be filled out before submitting form.
- 3) This attribute works with i/p types like text, search, url, tel, email, password, checkbox, radio.