

JAVASCRIPT :-

Q1 What is Javascript?

Ans:- Script is a program (code) if doesn't require any preprocessing operations (ex. compile/translate) before executing program.

⇒ Script executes in the context of browser

⇒ generally script executes:-

i> While loading web page.

ii> Event triggered by the user.

Types of Scripts:

1> Client side

2> Server side.

1> Client side:- These programs are translated, execution & produced output in client machine only.

⇒ No need of S/W installing.

eg:- $\overset{\circ}{T}$ anascript, $\text{typ}\overset{\circ}{e}$ script, $\text{I}\overset{\circ}{s}$ cript, $\text{u}\overset{\circ}{b}$ script...

2.7 Server side: These programs are translated & execution in server machine, but it displaying result in client.

⇒ need Web server or application server.

Eg:- express.js, vue.js, node.js, asp.net, php ---

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Wed

JavaScript in 1995 created by Netscape
developed by Brendan Eich.

First It is called Mocha. (1995)

↓ Renowned

Livescript

↓ Renamed

JavaScript (1997 dec)

Netscape first introduced a js interpreter in Navigator 2.

ECMA script / ES.

Later javascript became an ECMA (European Computer Manufacturers Association Adopt) standard in 1997. ECMAScript is the official name of the language.

⇒ JS is implementation of ES; ES is the specification of JavaScript.

RBI → SBI, HDFC, ICICI → customers
ES → JS → programmer.

⇒ JavaScript is originally it's not programming lang.
 { AJAX, Node.js, JQuery, ReactJS, JSON, ASP.net, Angular } JavaScript.
 these technologies & framework using JS as their PL.

⇒ JS is a speed, light weight, interoperability, extended functionality, dynamic, loosely typed, cross platform, free base & open-source.

⇒ It's single threaded programme.

⇒ JavaScript is object-based or prototype based prog.
 it's not oops.

⇒ JS is ~~also~~ client-side (browser-side) programming.
 That means it executes on the browser.

⇒ it can also be used in server-side by using NodeJS, ASP, JSP.

⇒ JS is a case sensitive programme (mixed case.)

⇒ To work with JavaScript, we don't need to install any software.

⇒ JS is interpreter based, programming means the code will be converted into machine lang. line by line.
 JS interpreter is already embedded in browser.

⇒ Parser:

JS code (high) \leftrightarrow JS Parser \leftrightarrow machine code.

⇒ Every browser they have own JS Engine.

• V8 \rightarrow Chrome, Opera & Edge.

• SpiderMonkey \rightarrow Firefox.

• Chakra \rightarrow IE.

• SquirrelFish \rightarrow Safari.

⇒ JavaScript \rightarrow web applⁿ, mobile apps, networking app, AI, gaming applⁿ, animations
(desktop) \rightarrow standalone applⁿ

↓ which does not need any network, bluetooth or connection.

⇒ Use of JS: - There are so many application running on the web that are using JS like Google, Facebook etc.

Drawback:-

- no database
- not multithreaded.
-

how many ways to imp. js?

⇒ JS we can develop / imp in 3 ways but in 4 place.

(1) inline scripting.

(2) External "

(3) Internal ".

(1) Inline Scripting:-

Inline script nothing but writing code within the tag, by using event/dynamic attributes.

For this we need tag & event attributes.

Eg:- <body>

<h2> demo on inline script </h2>

<button onclick = "alert('hey, you pushed me!')"> Push
</button>

<button onclick = "alert('hey, you peeled me!')"> Pull
</button>

<h2 onclick = "alert('2 times click me!')"> Click me
</h2>

(2) Internal Scripting:-

Eg:- <head>

<title> JS2 </title>

<script type = "text/javascript">
document.write("msg from head sec");
</script>

<body>

<script type = "text/javascript">
document.write("msg from body sec");
</script>

not mandatory to write.

what or which type of scripting lang. we are using, we write that one only.

Eg: JScript
VBScript
JScript
anyone

like we use for