**what is javascript ?**

javascript is a client side scripting language

javascript load on user broswers

javascript are used to stored user information on broswers using cookie

javascript is developed and manage by ECMACSRIPT

javascript is used as programming language

ex: operators, variables, function , object , string , array call api , json etc

javascript is called inside of >head> and <body> tags both

javascript is called inside of <script type=”text/javascript”></script>

javascript called as external saved file inside of js folder and save with **external.js**

javascript is a case sensitive languge

javascript fast load data on broswers

javascript is used to set a **bhaviour** in your applications

javascript added a dynamic content inside of your applications

javascript is supported cross plateform

ex: support all OS

javascript create user friendly and seo friendly webpages or websites

javascript used to validate user forms

javascript is used to load loaders in webpages

**Advantage of javascript**

* Speed.
* Reduces load on the server.
* Ease of use.
* Rich Interface.
* Versatility.
* Extended functionality.
* Interoperability.
* Popularity.

<!DOCTYPE html>

<html>

<head>

    <meta charset='utf-8'>

    <meta http-equiv='X-UA-Compatible' content='IE=edge'>

    <title>Page Title</title>

    <meta name='viewport' content='width=device-width, initial-scale=1'>

    <link rel='stylesheet' type='text/css' media='screen' href='main.css'>

</head>

<body>

    <script type="text/javascript">

        alert('Hello i am just load javascript click ok to redirect on website')

        window.location='https://www.tops-int.com';

   </script>

</body>

</html>

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Javascript debugger : javascript is a interperte base language a=> 0101 and its convert high level language into low level language so interepreter are work for that.

Js debugger excute statements and step by steb debug code or interprete code and provides error

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    <link rel='stylesheet' type='text/css' media='screen' href='main.css'>

    <script src='main.js'></script>

</head>

<body>

    <script>

     debugger;

      var a=45;

      var b=65;

      var c=a+b;

    //   console.log("Additions of numbers is :"+c)

    document.write("Additions of numbers :"+c)

    </script>

</body>

</html>

External javascript :

**Examples.html**

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<html>

<head>

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    <title>Page Title</title>

    <meta name='viewport' content='width=device-width, initial-scale=1'>

    <link rel='stylesheet' type='text/css' media='screen' href='main.css'>

    <script src='js/external.js' type="text/javascript"></script>

</head>

<body>

</body>

</html>

**External.js**

debugger;

var a=45;

var b=65;

var c=a+b;

//   console.log("Additions of numbers is :"+c)

document.write("Additions of numbers :"+c)

operators in javascript :

operator is used to operands some actions there we used operator

types of operator ?

a) assignment operator

ex: =, ==, !=

b) comparision operator

ex: >, <, >=, <= , ===

c) airthmatic operator

ex: +, -, \* , % , / etc

d) ternary operator

ex: ?:

e) increment/decrement operator

ex: ++ post increment

-- post decrement

Var i++ , var i--, var ++I, pre increment var –I pre decrement

f) sorthand operator

ex: +=, -=,\*=,%=,/=

g) logical operator

ex: && , || , !

h) string concatenate operator

ex: +