**Java script topics**

**Date:26- 4 -2020**

**What is java script**

**Java script is a light wight, open source, client side scripting language developed by netscape in 1995**

**In beginning it was know as live script but because it was generated by java netscape changed its name as java script.**

**It can integrate with html pages and enable web authors to increase interactivity of we pages and load content dynamicaly.**

**Use of java script**

**Java script use to create dynamic web page.**

**Java script use to create richer client side ineractive of website**

**Java can be used for security and validations.**

**Java script can be use to fetch user information like ip address browser details**

**Advantage of java script**

**Less server interaction.**

**Immediate feedback to user.**

**Richer interface.**

**Java vs java script**

**Java script is an oop scripting language while java is oop programing languange**

**Java script interpreted by and runs on browser only while java code can execute on both jvm and browser.**

**Java scripot is not complicated and strict while java code is so complocated and strict.**

**Java script use to increase interactivity of webpages and create dynamic web page with html while java use to createstand alone and live application using applets**

**What you should alrady know**

**Basic computer, internet html css and coding experience int text editor**

**What you need to start ?**

**Browser , Notepad , virtual server (wamp, xamp, lamp etc)**

**Java script language**

**By using Script tag we can start java script**

**Script tag have 2 attribute type=”text/javascript” language**

**<script >**

**Document.write(“text goes here ”);**

**</script>**

**For single coment //this is login**

**For multiple /\*sdasda \*/**

**Case sencivity**

**27-2-2020**

**1st practical**

**<html>**

**<head>**

**<title> waheguru </title>**

**<script rel=text/javascript language=javascript>**

**document.write("<h1><b>hello</b> <u>world</u></h1>")**

**document.write("<h1>this in another line of <u>java script</u></h1>")**

**document.write("<h1>waheguru ji ka khalsa waheguru ji ki fateh </h1>")**

**document.write("first name:<input type=text>")**

**document.write("<input type=submit>")**

**</script>**

**<body>**

**</body>**

**</html>**

**2nd practical of alert button**

**Using head section**

**<html>**

**<head>**

**<title>waheguru java script </title>**

**<script type="text/javascript" language="javascript">**

**function hello(){**

**alert ("i am alert button using head section ");}**

**</script>**

**</head>**

**<body>**

**<input type="button" value="press me" onclick="hello()">**

**</body>**

**</html>**

**3rd is external java sheet**

**<!doctype html>**

**<html>**

**<head>**

**<title>waheguru java script </title>**

**<script type="text/javascript" language="javascript" src="2nd.js">**

**</script>**

**</head>**

**<body>**

**<fieldset><legend><mark>Demo form</mark></legend>**

**<form>**

**fisrt name:<input type="text" required><br><br>**

**last name:<input type="text" required><br><br>**

**Email id: <input type="email" required><br><br>**

**Password:<input type="password" required><br><br>**

**click on submit:<input type="button" value="submit" onclick="hello()">**

**</form></fieldset>**

**</body>**

**</html>**

**External sheet js sheet code is here**

**function hello(){**

**alert ("hahahahahaha Hello user this is demo from ");**

**}**

**28-4-2020**

**Learn to create variables in Javascript**

**What is variable**

**Empty box**

**Variable rules :**

1. **Start with xyz cant use number symbol**
2. **\_can use abc\_dfg**
3. **Reserve keyword can’t use**
4. **Case senceity**
5. **Name should be small**
6. **Var James =500; for number**
7. **For char var xyz=”amanpreetsingh”**
8. **Var jamesa =1900, jensc=”blue”, shirt=”1000,”;**

**How to do practical**

**<html>**

**<head>**

**<title>waheguru java script </title>**

**</head>**

**<body>**

**<script type="text/javascript" language="javascript">**

**var jensP=600, shirtP=700, jensC="blue", shirtC="black", total=jensP+shirtP;**

**document.write("<h1>hello world!!</h1><br>");**

**document.write("i bought a " +shirtC+ "shirt and " +jensC+ " jens");**

**document.write("<br>price of shirt= "+shirtP+ "<br>price of jens= "+jensP+ "<br> Total Price is= "+total )**

**</script>**

**</body>**

**</html>**

**Types of variables**

**Local and global**

**<html>**

**<head>**

**<title>waheguru java script </title>**

**</head>**

**<body>**

**<script language="javascript" type="text/javascript">**

**var name="amanpreetsingh" 🡸 global variable**

**function hello(){**

**var hnji="khalsaji" 🡸 local variable**

**alert("form bharan lai aap ji da dhanwas hai\_waheguru twanu khushia bakshey");**

**}**

**</script>**

**First name:**

**<input type="text" placeholder="First name " ><br><br><br>**

**First name:**

**<input type="text" PLACEHOLDER="second name " ><br><br><br>**

**Submit kro:**

**<input type="button" value="press me" onclick="hello()"><br><br>**

**</body>**

**</html>**

**Learn Javascript functions**

**Function is a usable code block function is not self excecuteable**

**<!doctype html>**

**<html>**

**<head>**

**<meta charset="utf-8">**

**<title>Untitled Document</title>**

**</head>**

**<body>**

**<script>**

**function aman(){**

**alert("hello aman you are using function");**

**}**

**</script>**

**<input type="button" value="call function" onclick="aman()">**

**</body>**

**</html>**

**29-4-20**

**Types of functions in JavaScript**

**Built in fun**

**<!doctype html>**

**<html>**

**<head>**

**<meta charset="utf-8">**

**<title>built in function</title>**

**</head>**

**<body>**

**<script>**

**var size="amanpreetsingh";**

**document.write("<h1>hello this is lenght of my name:</h1>"+size.length);**

**</script>**

**</body>**

**</html>**

**29-4-20**

**User define Animated**

**<html>**

**<head>**

**<title>**

**user define function         </title>**

**<style>**

**input[type="button"],p{**

**cursor: pointer;**

**font-weight: bolder;**

**background-color: cyan;**

**font-size: 4em;**

**font-variant-caps: petite-caps;**

**border-radius: 35px;**

**border:10px solid;**

**animation:aman 1s infinite alternate;**

**}**

**input[type="button"]:hover{background-color: coral;**

**cursor: pointer;**

**font-weight: bolder;**

**background-color: cyan;**

**font-size: 4em;**

**font-variant-caps: petite-caps;**

**border-radius: 35px;**

**border:10px solid;**

**}**

**@keyframes aman{**

**0%{background-color: rgb(94, 255, 0);}**

**50%{background-color: gold\*;}**

**70%{background-color:aqua;}**

**100%{background-color: deeppink;}**

**}**

**</style>**

**</head>**

**<body0>**

**<script>**

**function sayhi(){**

**alert("Aaa vi Aman kime aa bas vdiya kirpa");**

**}**

**</Script>**

**<center> <p>Click for Run  user define Function:</p>    <input type="button" value="Press me" onclick="sayhi()"></center>**

**</body>**

**</html>**

**29-4-2020**

**Functions with parameter and argument**

**<html>**

**<head>**

**<title>**

**Functions with parameter and argument in JavaScript**

**</title>**

**<style>**

**input[type="button"],p{background-color: aqua;**

**font-size: 4em;**

**border-radius: 2em;}**

**input[type="button"]:hover{background-color:chartreuse;**

**cursor: pointer;**

**font-variant-caps: all-petite-caps;**

**font-size: 4em;**

**border-radius: 2em;}**

**</style>**

**<script type="text/JavaScript" language="JavaScript">**

**function aman(a,b,c) {**

**alert("hello "+a+ "  "+b+ " " +c);**

**}**

**function amnu(age) {**

**alert("hello  I am "+age+ "year old" );**

**}**

**function preet(a,b) {**

**alert("menu ena confirm ni ki mai "+a+ " saal da ka  " +b+ "  saal da " );**

**}**

**</script>**

**</head>**

**<body>**

**<input type="button" value="Press me" onclick="aman('Aman','preet','singh');"><br><br><br>**

**<p>for age function:</p><input type="button" value="Press me" onclick="amnu(28);"><br><br>**

**<input type="button" value="Press me" onclick="preet('28','29');"><br><br><br>**

**</body>**

**</html>**

**30-4-20**

**Return statement in javascript function**

**Option al statement when function ke andar ki value ko bahar use karne ke liye**

**<html>**

**<head>**

**<title> Return statement in javascript function</title>**

**<style>**

**p{background-color: aquamarine;**

**width: 490px;**

**font-size: 2em;**

**position: relative;**

**border: 2px solid;**

**padding: 5px;**

**background-origin: padding-box;**

**top:190px;**

**left: 100px;}**

**</style>**

**<script>**

**var a=parseInt(prompt("Enter your first number"));**

**var b=parseInt(prompt("Enter your second number"));**

**function add(n1,n2) {**

**var total=n1+n2;**

**return total;**

**}**

**var res=add(6,5);**

**var rel=add(a,b);**

**document.write("<p> Return statement in javascript**

**</p>");**

**document.write("<p>your addition is ="+rel+ "</p>");**

**</script>**

**</head>**

**<body>**

**</body>**

**</html>**

**30-4-20**

**Alert box in JavaScript**

**For alert any thing you can create alert box**

**<html>**

**<head>**

**<title>Alert box  in JavaScript</title>**

**<head>**

**<script type="text/javascript" language="javascript">**

**alert("please insert a valid number ");**

**</script>**

**</head>**

**</head>**

**<body>**

**</body>**

**</html>**

**Confirmation Dialogue box in JavaScript**

**When your want to visit your site and for confirm any action from by user u can use this box and coding**

**<html>**

**<head>**

**<title>**

**Confirmation Dialogue box in JavaScript**

**</title>**

**<script>**

**var  a=confirm("are you rady for visit this site")**

**if(a==true){**

**/\*  document.write("<h1>welcome your Confirm box is working</h1>")\*/**

**open("file:///C:/Users/khalsa/Desktop/WEB/java%20scrippt/1st%20test.html")**

**/\*open("http://www.google.com")\*/**

**}**

**else{**

**document.write("<h1>you press wrong by cancel button</h1>");**

**}**

**</script>**

**</head>**

**<body>**

**</body>**

**</html>**

**Prompt Dialogue box in JavaScript**

**Using for user input :🡺**

**<html>**

**<head>**

**<title>**

**Prompt Dialogue box in JavaScript**

**</title>**

**<style>**

**h1 {border: 2px dotted ;**

**font-size: 3em;**

**background-color: aquamarine;**

**text-shadow: 5px 5px 5px yellow;**

**border-radius: 30px;**

**padding: 40px;**

**position: relative;**

**width: 800px;**

**top:100px;}**

**</style>**

**<script>**

**var a=parseInt(prompt("Please enter 1st number"));**

**var b=parseInt(prompt("Please enter 2nd number"));**

**var total=a+b;**

**/\*var a=prompt("hello please write your name");\*/**

**/\*   document.write("<h1>youe name is ="+a+ "</h1>")\*/**

**document.write("<h1>Your answer of "+a+ " and " +b+ " is ="+total+ "</h1>")**

**</script>**

**</head>**

**<body>**

**</body>**

**</html>**

**30-4-20**

**if else conditional statement**

**<html>**

**<head>**

**<title>**

**if else conditional statement**

**</title>**

**<script>**

**document.write("<h1> ਇਹ ਵੇਬ ਪੇਜ if else ਕੰਡੀਸ਼ਨਲ ਸਟੇਟ ਮੈਂਟ ਵਾਲਾ ਹੈ ਜੀ  ਜਿਸ ਵਿੱਚ ਉਮਰ ਨਰੀਖਣ ਕੀਤਾ ਜਾਂਦਾ ਹੈ </h1>" )**

**var a=parseInt(prompt("ਆਪਣੀ ਉਮਰ ਦਰਜ ਕਰੋ"));**

**if(a<18){**

**document.write("<h1> ਭਾਈ ਤੇਰੀ ਉਮਰ  " +a+ "  ਹੈ ਸਾਲ  ਜੋ ਕੇ  ਘੱਟ ਹੈ");**

**}**

**else{**

**document.write("<h1>ਤੁਹਾਡੀ ਉਮਰ "+a+ " ਹੈ  ਜੋ ਕੇ ਯੋਗਤਾ ਪ੍ਰਾਪਤ ਹੈ </h1>" )**

**}**

**</script>**

**</head>**

**</html>**

**30-4-20**

**if..else if..else statement**

**A b c**

**<html>**

**<head>**

**<title>**

**if..else if..else statement**

**</title>**

**<style>**

**h1{**

**background-color: cadetblue;**

**font-size: 3em;**

**border: 2px solid;**

**width: 500px;**

**border-radius: 20px;**

**padding: 50px;**

**}**

**</style>**

**<script type="text/javascript" language="javascript">**

**var a,b,c;**

**a=parseInt(prompt("enter your 1st number"))**

**b=parseInt(prompt("enter your 2nd number"))**

**c=parseInt(prompt("enter your 3rd number"))**

**if(a>b && a>c){**

**document.write("<h1>A is  Grater number  =" +a+ "</h1>")**

**}**

**else if(b>a && b>c){**

**document.write("<h1>B is  Grater number =" +b+ "</h1>")**

**}**

**else if (c>b && c>a){**

**document.write("<h1>C is  Grater number =" +c+ "</h1>")**

**}**

**else{**

**document.write("<h1> ਹਾ ਹਾ ਹਾ ਹਾ......  ਭਾਈ ਸਾਰੇ ਨੰਬਰ ਬਰਾਬਰ ਆ  </h1>")**

**}**

**</script>**

**</head>**

**<body>**

**</body>**

**</html>**

**30-4-20**

**switch case conditional statement**

**<html>**

**<head>**

**<title>**

**switch case conditional statement**

**</title>**

**<style>**

**</style>**

**<script>**

**var c;**

**var c=parseInt(prompt("please enter your value"))**

**switch(c){**

**case 1:document.write("<h1>monday</h1>")**

**break;**

**case 2:document.write("<h1>tueday</h1>")**

**break;**

**case 3:document.write("<h1>wednessday</h1>")**

**break;**

**case 4:document.write("<h1>thursday</h1>")**

**break;**

**case 5:document.write("<h1>friday</h1>")**

**break;**

**default: document.write("<h1>invalid input</h1>")**

**}**

**</script>**

**</head>**

**</html>**

**1-5-2020**

**For loop in JavaScript**

**5 depend**

**Counter**

**Initialization**

**Condition**

**Change /incre / decre interation statement**

**Loop body**

**Var counter;**

**For (initialization; condition; change ){**

**Loop body}**

**}**

**<<html>**

**<head>**

**<title>**

**For loop in JavaScript**

**</title>**

**<style>**

**</style>**

**<script language="JavaScript" type="text/JavaScript">**

**var i;**

**for(i=1; i<=10; i++)**

**/\*counter;**

**initialization; condition; change \*/**

**{**

**/\*loop body \*/**

**document.write("<h3>ਧੰਨ ਗੁਰੂ ਨਾਨਕ ਦੇਵ ਜੀ   "+i+ "</h3>" )**

**}**

**</script>**

**</head>**

**</html>**

**While loop in JavaScript**

**Var count=0**

**While(condition expression ){**

**}**

**<html>**

**<head>**

**<title> While loop in JavaScript </title>**

**<script>**

**var i=0; /\*variable \*/**

**while(i<=10) /\*condition\*/**

**{**

**/\* code block\*/**

**document.write("<h2> your line is printing no "+i+ "</h2>")**

**i+=2;**

**}**

**</script>**

**</head>**

**<body>**

**</body>**

**</html>**

**do while loop in JavaScript**

**Do loop 1st time will executed**

**<script>**

***/\*do loop\*/***

**document.write("<h2>do loop is here </h2><br>");**

**var i=0;**

**do {**

**document.write("do loop line is printing "+i+ "<br>");**

**i++;**

**}  while(i<=10);**

**document.write("<hr> <hr>");**

***/\*while loop\*/***

**document.write("<h2>while loop is here<br></h2>");**

**var j=0;**

**while(j<=10)**

**{**

**document.write("while loop  printing is here "+j+ "<br>");**

**j++;**

**}**

**</script>**

**2-5-2020**

**Break and continue statement**

**By using for loop u can do break and continue statement**

**<html>**

**<head>**

**<title>Break and continue statement </title>**

**<style>**

**</style>**

**<script>**

**document.write("for loop<br />")**

**for( var i=0; i<=10; i++)**

**{**

**if(i==5){**

**continue;}**

**document.write("Internal loop word "+i+ " <br/>")**

**}**

**</script>**

**</head>**

**</html>**

**Learn Basic of Javascript Objects**

**Object: object can contain content and function and class data**

**How to create object by three type is here we will discuss**

**Method 1**

**Var fruit1=[ ]; //blank array**

**Var person1 ={} // blank object**

**Method 2**

**Var fruit2=new Array ( ); //blank array using constructor**

**Var person =new Object( ); //blank object using constructor**

**Method 3rd**

**var=fruit [‘mango’, ‘ orange’, ‘papaya’]**

**Var person =(**

**Name: ‘Amanpreet ’,**

**Age:28,**

**City:’mandi’ );**

**Array Access**

**Document.write(person.name);**

**</script>**

**Array + object accessing**

<html>

    <head>

        <title>

             Learn Basic of Javascript Objects

        </title>

               <script type="text/javascript" language="javascript">

*var* fruit=['mango', 'orange', 'apple'];

            //object

*var* person={

                Name:'Amanpreet singh',

                Age:28,

                City:'Mandi gobindgarh'

        };

                document.write(fruit[0]);

                document.write("<hr width=70px align=left>");

                document.write(fruit[1]);

                document.write("<hr width=70px align=left>");

                document.write(fruit[2]);

                document.write("<hr width=120px  size=5 align=left>");

                document.write(person.Name);

                document.write("<hr width=70px align=left>");

                document.write(person.Age );

                document.write("<hr width=70px align=left>");

                document.write(person.City);

        </script>

    </head>

</html>