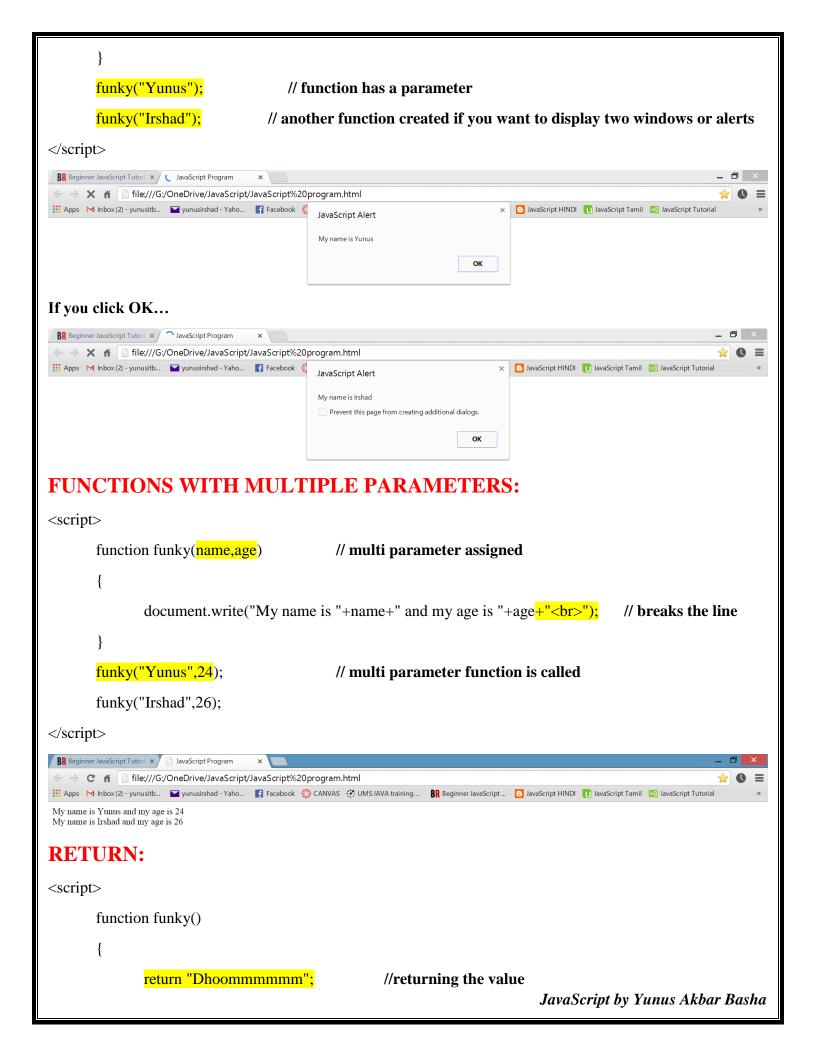
JavaScript Programming

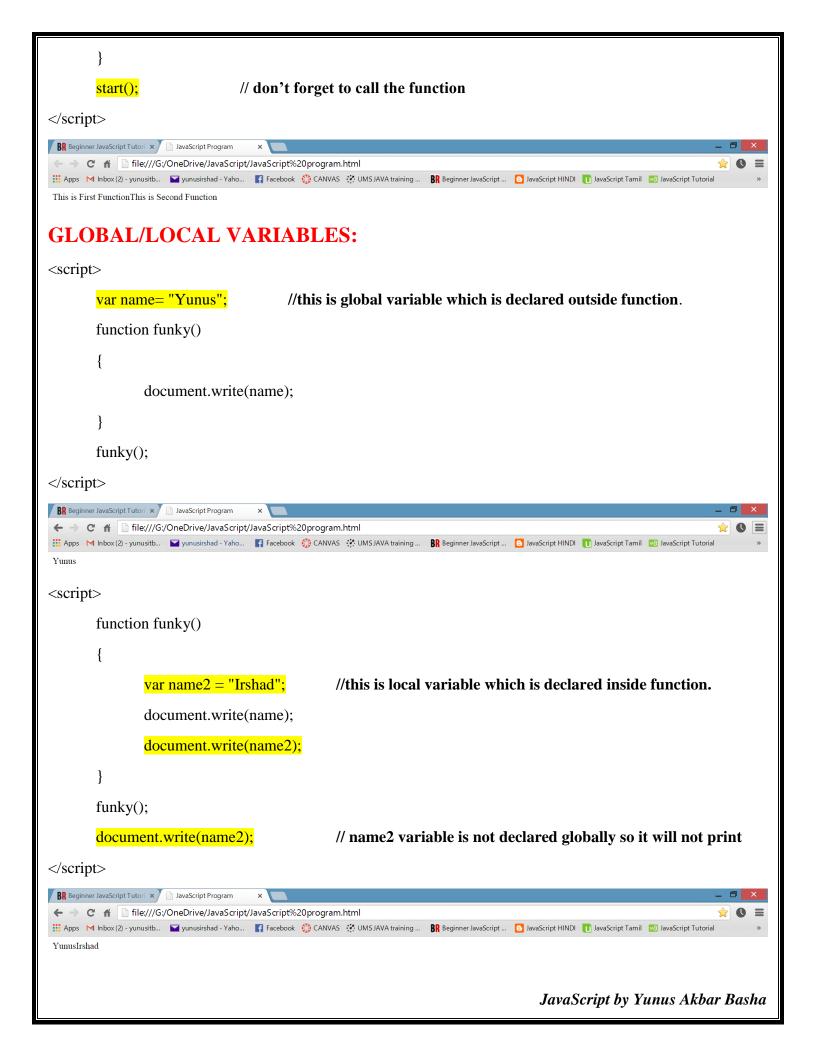
```
JAVASCRIPT:
JavaScript is a scripting language used to make webpages interactive.
<html><head>
        <title>JavaScript Program</title>
<head><body>
<script>
        document.write("Hello World"); // prints the hello world on the screen
</script>
</body></html>
       Comments are declared as same as JAVA "//" and for multiple comments "/* */"
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Hello World
VARIABLES:
<script>
        var apple = 26;
                                        // declaring an integer variable
        document.write(apple);
       var apple = " This is a String";
                                                        // declaring a character variable
        document.write(apple);
        var apple = " Yunus said, \"I love you\"";
                                        // use escape character if you have to specify string in quotations
        document.write(apple);
                                                // if you don't use quotations in string it will take as a variable
        var banana = apple;
        document.write(banana);
</script>
```

JavaScript by Yunus Akbar Basha

```
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26 This is a String Yunus said, "I love you" Yunus said, "I love you"
USING VARIABLES WITH STRING:
<script>
        var name = "yunus";
        var age = "23";
        document.write("My name is "+name+" and my age is "+age);
                                                                                     // same as java
</script>
FUNCTIONS:
<script>
                                          // function name is created
        function funky()
                 alert("This an ALERT!!!");
                                                           // an alert message is shown
                         // you can use this funky(); which calls the function
</script>
<form>
        <input type="button" value="Button name" onclick="funky()"> // on click calls the function
</form>
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                                               JavaScript Alert
Button name
                                                This an ALERTIII
                                                                           OK
USING PARAMETERS WITH FUNCTIONS:
<script>
        function funky(name)
                                          // parameter is assigned
                 alert("My name is "+name);
                                                                                       JavaScript by Yunus Akbar Basha
```



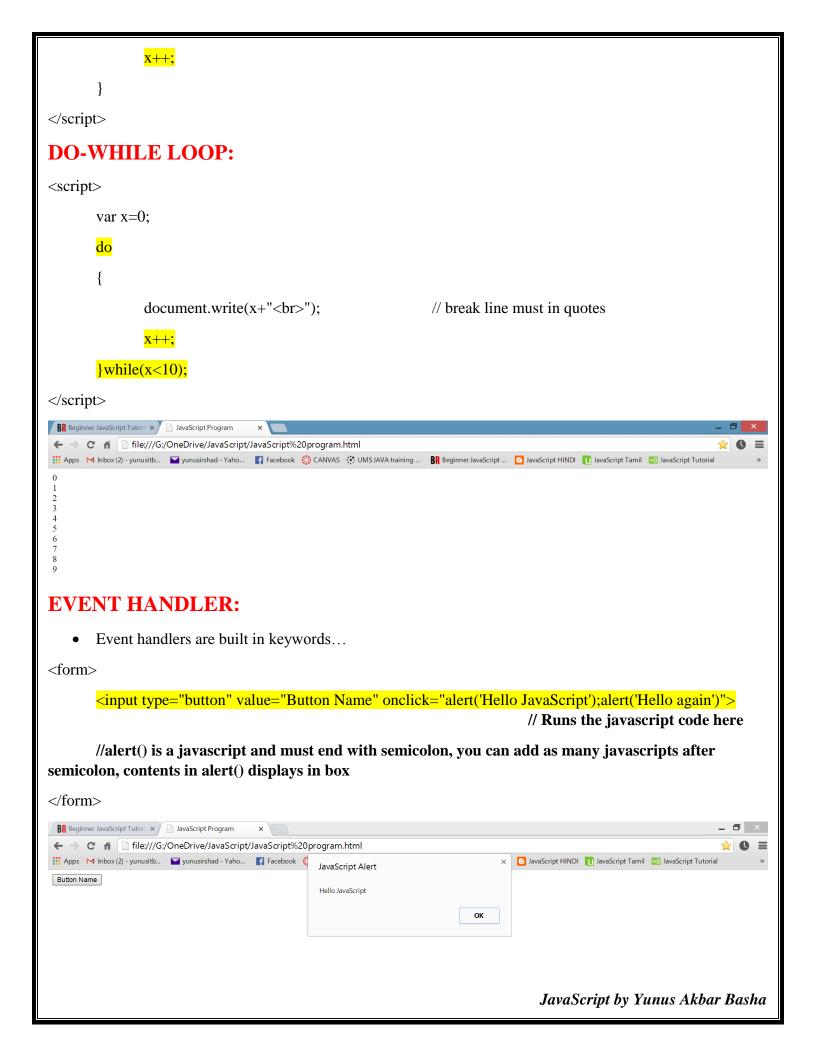
```
document.write(funky());
                                                   // calling the function
</script>
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Dhoommmmm
<script>
        function funky(a,b)
                 var c = a+b;
                                          // if you don't add return it displays "UNDEFINED"
                 return c;
        document.write(funky(10,20));
</script>
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CALLING A FUNCTION FROM ANOTHER FUNCTION:
<script>
        function first()
                                          // first function declared
                 document.write("This is First Function");
        function second()
                                          // second function declared
                 document.write("This is Second Function");
                                          // calling other functions
        function start()
                 first();
                 second();
                                                                                        JavaScript by Yunus Akbar Basha
```

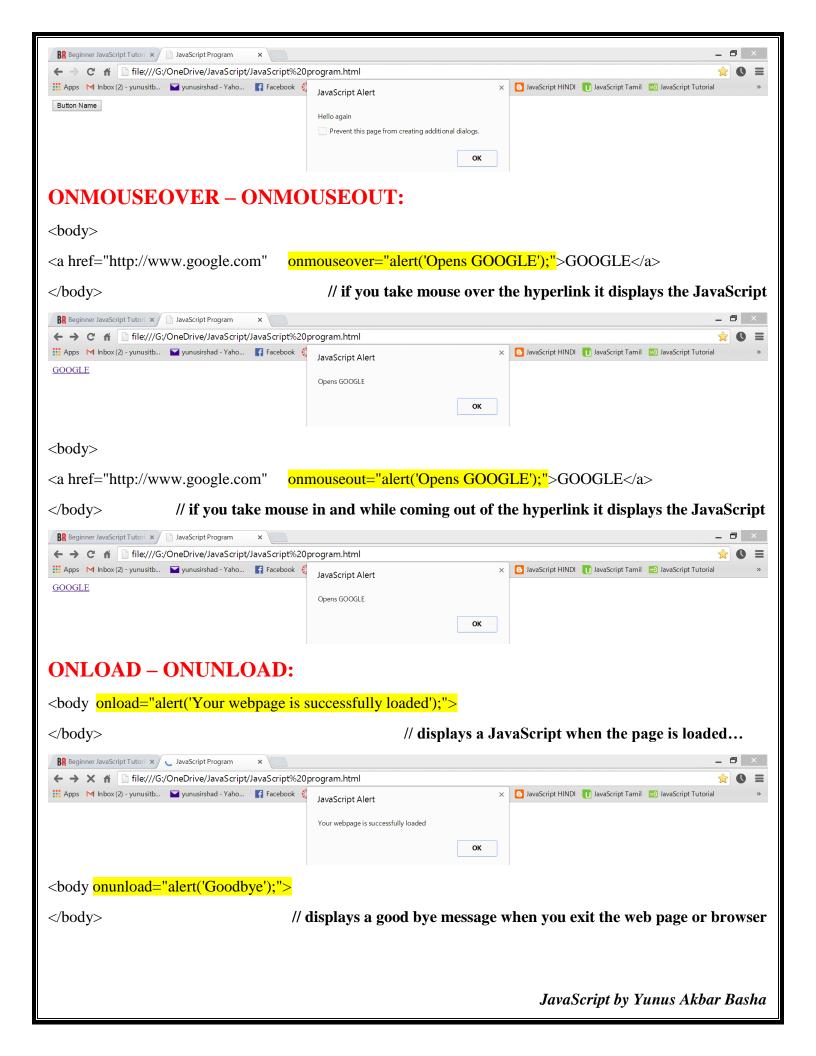


```
ARITHMETIC—ASSIGNMENT OPERATORS:
<script>
        var apples = 10+20;
                                                         // + is an addition operator
        document.write(apples);
// we have more math operators such as - (subtract), *(multiply), / (divide), %( remainder or modulus)
</script>
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<script>
        var apples = 25;
        apples += 50;
// = is the assignment operator and it can be assigned to addition, multiply, subtract, divide.
        document.write(apples);
</script>
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IF & IF-ELSE STATEMENT:
<script>
        var apples = 25;
        if(apples == 25)
// checks the statement you can use <=(less than equal to), >=(greater than equal to), !=(not equal)
                document.write("Yes the condition is true");
                                                          // prints only if the condition satisfy the statement
        } else
                document.write("No the condition is false");
                                                 // prints only if the condition doesn't satisfy the statement
                                                                                    JavaScript by Yunus Akbar Basha
```

```
</script>
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Yes the condition is true
NESTED STATEMENT:
<script>
        var firstname = "yunus";
        var lastname = "irshad";
        if(firstname=="yunus")
                if(lastname=="irshad")
                                                                   // nested if statement
                         document.write("Yes he won the price");
</script>
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Yes he won the price
AND OR OPERATORS USED IN STATEMENTS:
<script>
        var firstname = "yunus";
        var lastname = "irshad";
        // by this AND-OR operator eliminates the nested statements
        if((firstname=="yunus") && (lastname=="irshad"))
                                                  // AND "&&"operator in which both conditions must be true
                                                  // OR "||"operator in which any one condition must be true
                         document.write("Yes he won the prices");
</script>
                                                                                      JavaScript by Yunus Akbar Basha
```

```
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Yes he won the prices
SWITCH:
<script>
        var name="yunus";
        switch(name)
                                   // checks the statement
                 case "yunus": document.write("Yes he is "+name);
                                   break;
                 case "irshad": document.write("Yes he is "+name);
                                   break;
                 default: document.write("INVALID NAME"); // this is a default statement if doesn't matches
</script>
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Yes he is yunus
FOR LOOP:
<script>
                                                     // in for loop you don't need to initialize the variable
        for(x=0; x<10; x++)
                 document.write(x+"<br>");
                                                                       // break line must in quotes
</script>
WHILE LOOP:
<script>
        var x=0;
        \frac{\text{while}(x<10)}{\text{while}}
                 document.write(x+"<br>");
                                                                                           JavaScript by Yunus Akbar Basha
```





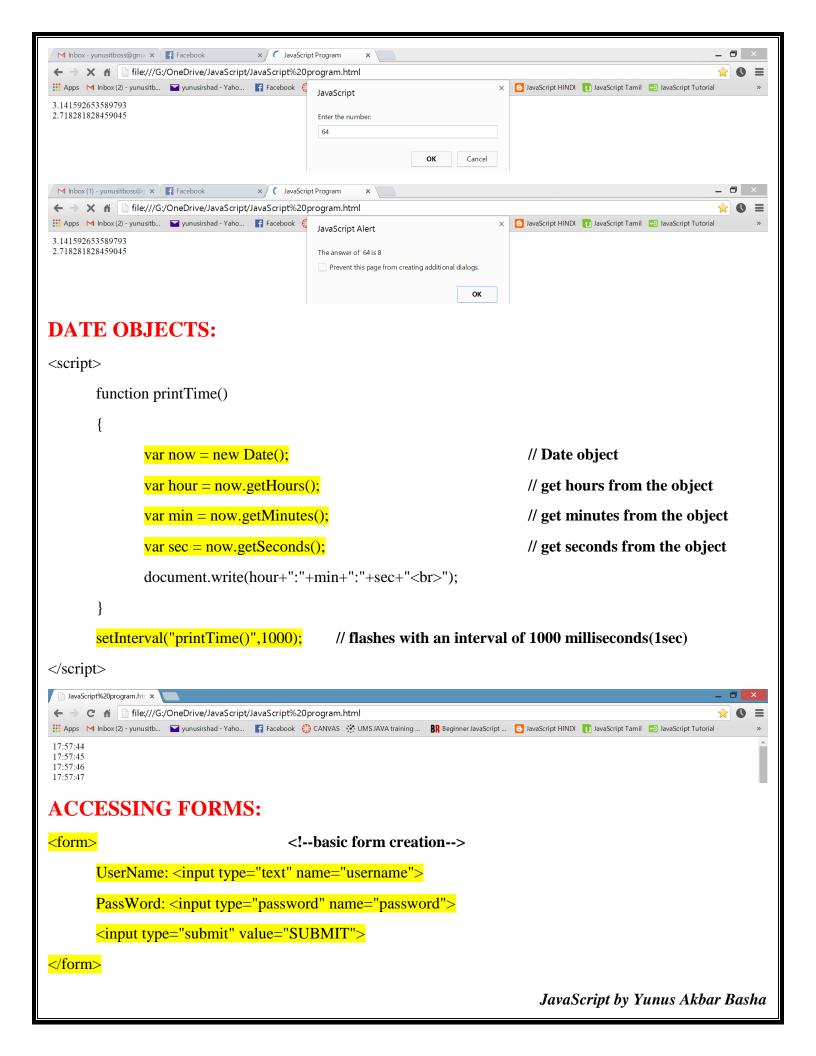
```
CREATING OBJECTS:
       Objects have two ---- properties associated to variables and methods.
<head><script>
        function person(name,age)
                                                         // this is a constructor for function
                this.name = name;
                this.age = age;
        var object = new person("Yunus",23);
                                                                 // object is been created
</script><head>
<body><script>
                                                         // object with his property
        document.write(object.age);
        document.write(object.name);
</script></body>
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23Yunus
OBJECT INITIALIZERS:
<script>
        var object1 = {name:"Yunus", age:23};
                                                                         // object initialization
        var object2 = {name:"Irshad", age:25};
</script><head>
<body><script>
        document.write("My name is "+object1.name+" and my another name is "+object2.name+" and my age
is "+object1.age);
</script>
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My name is Yunus and my another name is Irshad and my age is 23
ADDING METHODS TO OBJECTS:
<script>
                                                                                    JavaScript by Yunus Akbar Basha
```

```
function people(name,age)
                this.name = name;
                this.age = age;
                                              // retire takes place with yearsleft method in constructor function
                this.retire = yearsleft;
        }
        function yearsleft()
                var numberofyears = 50-this.age;
                                                                 //takes the age of the constructor
                return numberofyears;
        var object1 = new people("Yunus",23);
</script><head>
<body><script>
        document.write(object1.retire()+" Years more for me to retire")
                                                                                 //object takes the retire() method
</script>
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                                                                                                                     0 =
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27 Years more for me to retire
ARRAYS:
                                        //arrays are declared to list long datas like names, phone numbers.
<script>
        var names = new Array("Yunus","Irshad","Zakira","Banu");
        document.write(names[2]+"<br>");
                                                                         // the array must start with "0" as index
        document.write(names[4]);
                                           // if the index is out of array length then it displays "UNDEFINED"
</script>
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Zakira
undefined
ANOTHER WAY OF CREATING ARRAYS:
                                                                                   JavaScript by Yunus Akbar Basha
```

```
<script>
         var names = new Array(3);
         names[0] = "Yunus";
         names[1] = "Irshad";
         names[2] = "Zakira";
         document.write(names[1]);
</script>
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Irshad
ARRAY PROPERTIES AND METHODS:
<script>
         var names = new Array("Yunus","Irshad","Zakira","Banu");
         document.write(names.length);
                                                               // length is the property for an array
</script>
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CONCAT():
<script>
                           // For methods in array you need two arrays
         var names = new Array("Yunus","Irshad","Zakira","Banu");
         var food = new Array("apples","biriyani","noodles");
         var concat = names.concat(food);
                                                               // two arrays add together
         document.write(concat+"<br>");
</script>
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Yunus,Irshad,Zakira,Banu,apples,biriyani,noodles
JOIN();
<script>
         var names = new Array("Yunus","Irshad","Zakira","Banu");
                                                                                             JavaScript by Yunus Akbar Basha
```

```
var strings = names.join();
                                                                       // converts the array into strings
         document.write(strings+"<br>");
         var strings = names.join(" - ");
                                                                       // it gets seperated by "-" hyphen
         document.write(strings);
</script>
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 Yunus, Irshad, Zakira, Banu
 Yunus - Irshad - Zakira - Banu
POP();
<script>
         var names = new Array("Yunus","Irshad","Zakira","Banu");
         var strings = names.pop();
                                                              // pop() method removes the last item from the array
         document.write(strings+"<br>");
</script>
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REVERSE() - PUSH() - SORT();
<script>
         var names = new Array("Yunus","Irshad","Zakira","Banu");
         document.write(names.reverse()+"<br>");
                                                                                                  // reverses the array items
         document.write(names.push("SRK","Salman")+"<br/>br>");
                                                                                                  // adds items into the array
         document.write(names.sort()+"<br>");
                                                                                         // sorts the array items from A to Z
</script>
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 Banu, Zakira, Irshad, Yunus
 Banu, Irshad, SRK, Salman, Yunus, Zakira
ADDING ARRAY ELEMENTS VIA LOOP USING PROMPT:
<script>
         var names = new Array(3);
         for(var i=0; i<names.length; i++)
                                                              // filling the array using for loop
                                                                                           JavaScript by Yunus Akbar Basha
```

```
names[i] = prompt("Enter your name:"," ");
// prompting the user to enter the name, the second parameter can be left empty or it will display "Enter
text here"
                 document.write(names[i]+"<br>");
                                                                     // displaying the array elements one by one
         }
</script>
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 zakira
                                                 Enter your name:
                                                 Irshad
                                                 Prevent this page from creating additional dialogs.
                                                                    OK Cancel
ASSOCIATIVE ARRAYS:
<script>
        var names = new Array();
        names["color"] = "blue";
                                                                     // instead of indexes we can use string
        names["food"] = "noodles";
        document.write(names["food"]);
</script>
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noodles
MATH OBJECTS:
<script>
        document.write(Math.PI+"<br>");
                                                                                       // Pi math object
        document.write(Math.E);
                                                                                       // Euler's concept math object
        var a = prompt("Enter the number: "," ");
        var answer = Math.sqrt(a);
                                                                                       // square root math object
        alert("The answer of "+a+" is "+answer);
</script>
                                                                                         JavaScript by Yunus Akbar Basha
```



```
<script>
       var x = document.forms[0].length;
                             // displays the length of elements in forms[0] it is the first form in the program
       document.write(x+"<br>>");
                                    // it displays as 3 because form contains username, password and button
       var y = document.forms[0].elements[0].name;
                                      // it access the elements[0] in the array and display the declared name
       document.write(y);
</script>
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                    PassWord:
                                        SUBMIT
SIMPLE FORM VALIDATION:
<form name= "NewForm">
                                                     <!--form name is created-->
       <input type="checkbox" name="check">
       <input type="submit" value="CHECK" onclick="validator()">
                                                     <!--javascript which validates the checkbox-->
</form>
<script>
       function validator()
               if(document.NewForm.check.checked)
                                      // if statement for checking formname.elementname.checked or not
               {
                       alert("Yes it is checked");
               }else
                       alert("No it is not checked");
                                                                              JavaScript by Yunus Akbar Basha
```

