

PROGRAM 1**JAVA SCRIPT TO PERFORM ALL ARITHMETIC OPERATION**

```
<html>
<head>
<title> Arithmetic Operation </title>
<script type="text/javascript">
  var n1,n2,r;
  function add()
  {
    n1=document.myform.n1.value;
    n2=document.myform.n2.value;
    n1=parseFloat(n1);
    n2=parseFloat(n2);
    r=n1+n2;
    document.myform.result.value=r;
  }
  function sub()
  {
    n1=document.myform.n1.value;
    n2=document.myform.n2.value;
    n1=parseFloat(n1);
    n2=parseFloat(n2);
    r=n1-n2;
    document.myform.result.value=r;
  }
  function mul()
  {
    n1=document.myform.n1.value;
    n2=document.myform.n2.value;
    n1=parseFloat(n1);
    n2=parseFloat(n2);
    r=n1*n2;
    document.myform.result.value=r;
  }
  function divide()
  {
    n1=document.myform.n1.value;
    n2=document.myform.n2.value;
    n1=parseFloat(n1);
    n2=parseFloat(n2);
    r=n1/n2;
    document.myform.result.value=r;
  }
}
```

```
</script> </head>
<body>
<form name="myform">
<h1 align="center"> Arithmetic Operations</h1>
<hr color="red">
<center><u>Enter a number in each text box </u><br><br>
Number 1:<input type="text" name="n1" value=""> <br><br>
Number 2:<input type="text" name="n2" value=""> <br><br>
<input type="button" value="Add" onClick="add()">
<input type="button" value="Subtract" onClick="sub()">
<input type="button" value="Multiply" onClick="mul()" >
<input type="button" value="Divide" onClick="divide()"><br><br>
<font color="red">Result is:
<input type="text" name="result" value=""></center></font>
</form>
</body>
</html>
```

OUTPUT

Arithmetic Operations

Enter a number in each text box

Number 1:

Number 2:

Result is:

Arithmetic Operations

Enter a number in each text box

Number 1:

Number 2:

Result is:

Arithmetic Operations

Enter a number in each text box

Number 1:

Number 2:

Result is:

Arithmetic Operations

Enter a number in each text box

Number 1:

Number 2:

Result is:

Arithmetic Operations

Enter a number in each text box

Number 1:

Number 2:

Result is:

PROGRAM 2**JAVA SCRIPT TO CHECK WHETHER A GIVEN NUMBER IS PRIME OR NOT**

```
<html>
<head> <title> To check for a prime number </title>
<script type="text/javascript">
function p()
{
    var n,i,flag=true;
    n=document.myform.n.value;
    n=parseInt(n)
    for(i=2;i<=n-1;i++)
        if(n%i==0)
        {
            flag=false;
            break;
        }
    if(flag==true)
        alert(n + " is prime");
    else
        alert(n + " is not prime");
}
</script></head>
<body>
<center>
<h1> To check whether a given number is prime or not </h1>

<hr color="red">
<form name="myform">

Enter the number: <input type="text" name=n value=""><br><br>
<input type="button" value="Check" onClick="p()"><br>
</center>
</form>
</body>
</html>
```

OUTPUT

To check whether a given number is prime or not

Enter the number: 5

Check



To check whether a given number is prime or not

Enter the number: 9

Check



PROGRAM 3**JAVA SCRIPT TO SEARCH AN ELEMENT IN AN ARRAY OF SIZE “N”**

```
<html>
<head>
<script type="text/javascript">
function show_prompt()
{
    var n=document.frm.text1.value;
    if( n == "")
    {
        alert("Please enter the array size");
    }
    else
    {
        var a=new Array();
        var temp;
        for(i=0;i<n;i++)
        {
            var num=prompt("Please enter a number"," ");

document.frm.arrayTxt.value=document.frm.arrayTxt.value+num+"\n";
            a[i]=parseInt(num);
        }
        var flag=0;
        var search=prompt("Enter the element to be searched ","");
        for(i=0;i<n;i++)
        if(a[i]==search)
        {
            flag=1;
            p=i+1;
        }
        if(flag==1)
            alert("Element " + search + " found at position " +p);
        else
            alert("Sorry!, Element " + search + " not found ");
        document.frm.text1.value="";
        document.frm.arrayTxt.value="";
    }
}
</script>
</head>
<body>
```

```
<form name="frm">
<center>
<h3>To find an element in a given array </h3>
<hr color="red">
Enter the array size : <input type="text" name="text1"><br><br>
<input type="button" onclick="show_prompt()" value="Submit"> <br><br>
<textarea name="arrayTxt" rows="10" cols="4"></textarea><br>
</center>
</form></body></html>
```

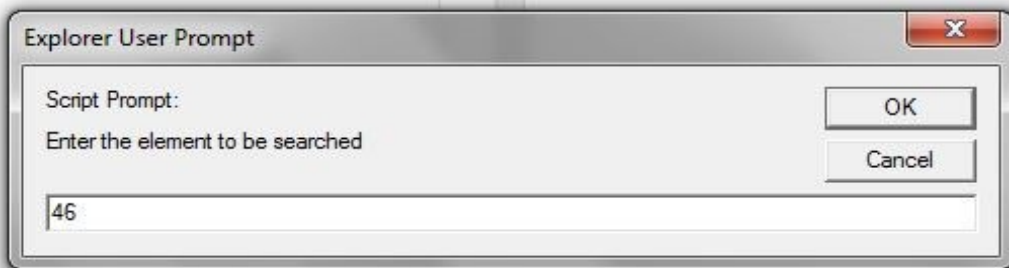
OUTPUT

To find an element in a given array

Enter the array size : 5

Submit

56
58
54
21
47

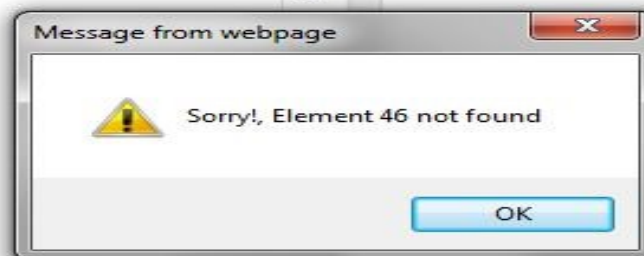


To find an element in a given array

Enter the array size : 5

Submit

56
58
54
21
47

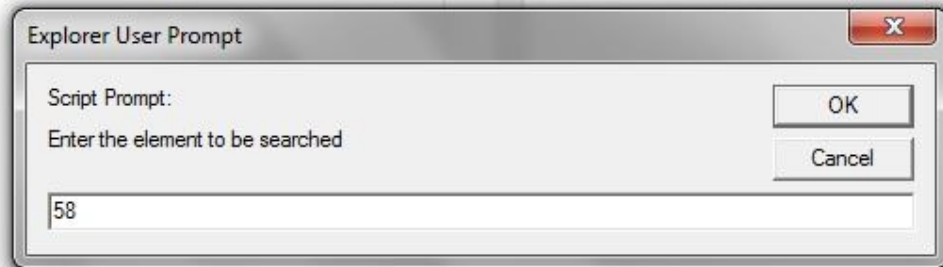


To find an element in a given array

Enter the array size : 5

Submit

47
41
42
56
58

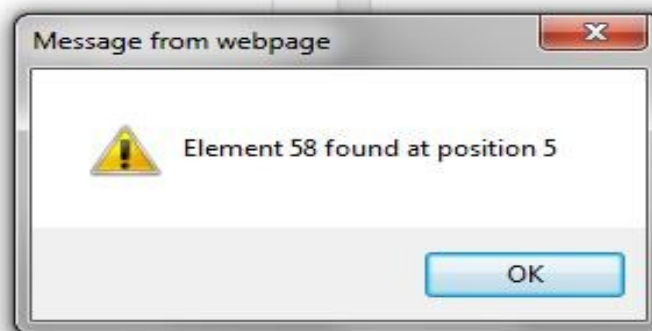


To find an element in a given array

Enter the array size : 5

Submit

47
41
42
56
58



PROGRAM 4
JAVA SCRIPT TO ILLUSTRATE A SUBROUTINE.

```
<html>
<head>
<script type="text/javascript">
function myfunction()
{
    document.write("<h1 align=center> <font color=red> Hello !!! This Message
                    is From The SubRoutine </font> </h1>");
}

</script>
</head>
<body>
<h1 align="center"> Subroutine Example </h1>
<hr color="red">
<center>
<form>
<input type="button" value="Cal Subroutine " onClick="myfunction()");
</form>
</center>
</body>
</html>
```

OUTPUT

Subroutine Example

Hello !!! This Message Is From The SubRoutine

PROGRAM 5**JAVA SCRIPT TO COMPUTE THE GCD OF 2 NUMBERS USING FUNCTION.**

```
<html>
<head>
<script type="text/javascript">
function gcd()
{
    var x,y;
    x=parseInt(document.myform.n1.value);
    y=parseInt(document.myform.n2.value);
    while(x!=y)
    {
        if(x>y)
            x=x-y;
        else
            y=y-x;
    }
    document.myform.result.value=x;
}
</script>
</head>
<body>
<h1 align="center"> Program to calculate gcd of two numbers </h1>
<hr color="red">
<center>
Enter two numbers :
<form name="myform">
Number 1 : <input type="text" name="n1" value=""> <br> <br>
Number 2 : <input type="text" name="n2" value=""> <br> <br>
<input type="button" value="Get GCD" onClick="gcd()"> <br> <br>
GCD is : <input type="text" name="result" value="">
</form>
</body>
</html>
```

OUTPUT

Program to calculate gcd of two numbers

Enter two numbers :

Number 1 : Number 2 : GCD is :

PROGRAM 6**JAVA SCRIPT TO FIND THE SECOND LARGEST NUMBER IN AN ARRAY.**

```
<html>
<head>
<script type="text/javascript">
function show_prompt()
{
    var n=document.frm.text1.value;
    if( n == "")
    {
        alert("Please enter the array size");
    }
    else
    {
        var a=new Array();
        var temp;
        for(i=0;i<n;i++)
        {
            var num=prompt("Please enter a number", " ");

document.frm.arrayTxt.value=document.frm.arrayTxt.value+num+"\n";
            a[i]=parseInt(num);
        }
        var large=a[0]; for(i=1;i<n;i++) if(a[i]>large) large=a[i];
        var slarge=a[0]; for(i=1;i<n;i++) if(a[i]>slarge && a[i]!=large)
slarge=a[i];
        alert("The second largest element in the given array is "+slarge);
        document.frm.text1.value="";
        document.frm.arrayTxt.value="";
    }
}
</script>
</head>

<body>
<form name="frm">
    <center>
<h1>To find second largest element in a given array </h1>
<hr color="red">
    Enter the array size : <input type="text" name="text1"><br><br>
    <input type="button" onClick="show_prompt()" value="Submit"> <br><br>
    <textarea name="arrayTxt" rows="10" cols="4"></textarea><br>
```

```
</center>  
</form>  
</body>  
</html>
```


OUTPUT

To find second largest element in a given array

Enter the array size : 5

56
58
59
52
4

Message from webpage

 The second largest element in the given array is 58

PROGRAM 7**JAVA SCRIPT TO CHECK WHETHER THE GIVEN INTEGER IS PALINDROME OR NOT**

```
<html>
<head>
<script type="text/javascript">
function isPalindrome()
{
    var num=document.frm.text1.value;
    if(num == "")
    {
        alert("Please enter the number");
    }
    else
    {
        var digit;
        var rev = 0;
        var n = num;
        while (num!=0)
        {
            digit = num % 10;
            rev = (rev * 10) + digit;
            num = num / 10;
            num = parseInt(num);
        }
        if( n == rev)
            alert(" Integer is palindrome ");
        else
            alert(" Integer is not palindrome ");
            document.frm.text1.value="";
        }
    }
</script>
</head>
<body>
    <form name="frm">
    <h1 align="center">To check whether a number is palindrome or not</h1>
    <hr color="red">
    <center>
    Enter a number:
    <input type="text" name="text1">      <br><br>
    <input type="button" value="Check Palindrome" onclick="isPalindrome()">
    </center>
    </form>
    </body>
</html>
```

```
</center>  
</form>  
</body>  
</html>
```

OUTPUT

To check whether a number is palindrome or not

Enter a number:

Check Palindrome



To check whether a number is palindrome or not

Enter a number:

Check Palindrome



PROGRAM 8**JAVA SCRIPT TO ILLUSTRATE DIFFERENT IN-BUILT STRING FUNCTIONS.**

```
<html>
<body>
<script type="text/javascript">
var str="Hello World";
document.write("<center>");
document.write("<h1> Example for String Functions </h1> ");
document.write("<hr color=red>");
document.write(str.big()+"<br>");
document.write(str.small()+"<br>");
document.write(str.bold()+"<br>");
document.write(str.italics()+"<br>");
document.write(str.fixed()+"<br>");
document.write(str.strike()+"<br>");
document.write(str.sup()+"<br>");
document.write(str.sub()+"<br>");
document.write(str.blink()+"<br>");
document.write(str.link("p1.html")+"<br>");
document.write(str.fontcolor("green")+"<br>");
document.write(str.fontSize(6)+"<br>");
document.write("</center>");
</script>
</body>
</html>
```

OUTPUT

Example for String Functions

Hello World
Hello World
Hello World
Hello World
Hello World
~~Hello World~~
Hello World

Hello World
Hello World
Hello World
Hello World

Hello World