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<!DOCTYPE html>

<html>

<head>

<title>Calculator</title>

<script type="text/javascript">

//FILL NUMBER

function fillNumber()

{
    var num=document.getElementById("checkall").value;

    var n=parseInt(num);

    document.getElementById("prime").value=n;

    document.getElementById("palin").value=n;

    document.getElementById("arms").value=n;

    document.getElementById("neon").value=n;

}

//CHECK ALL

function CheckAll()

{

    primeCheck();

    palinCheck();

    armsCheck();

    neonCheck();

}

function primeCheck()

{

    var num=document.getElementById("prime").value;

    var n=parseInt(num);

    var count=0;

    for(var i=1;i<=n;i++)
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        {
            if (parseInt (n%i)==0)

                count=count+1;

        }

        if (count==2)
        {
document.getElementById("out1").style.color="green";

                document.getElementById("out1").innerHTML="" +n+ " is a
Prime number";
        }

        else
        {
            document.getElementById("out1").style.color="red";

                document.getElementById("out1").innerHTML="" +n+ " is a
Composite number";
        }

    }

    //PALINDROME

function palinCheck()
{
    var num=document.getElementById("palin").value;

    var nn=n=parseInt (num);

    var a=0,r=0;

    while (n>0)

    {

        r=parseInt (n%10);

        a=parseInt (a*10+r);

        n=parseInt (n/10);

    }

    if (a==nn)
    {

        document.getElementById("out2").style.color="green";

                document.getElementById("out2").innerHTML="" +nn+ " is a
Palindrome number";
    }
}

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        }

        else
        {
            document.getElementById("out2").style.color="red";

            document.getElementById("out2").innerHTML=""+"nn+" is
not a Palindrome number";
        }

        return false;
    }

    //ARMSTRONG

function armsCheck()

{
    var num=document.getElementById("arms").value;

    var nn=n=parseInt(num);

    var len=nn.toString().length;

    var a=0,s=0;

    while(n>0)

    {

        a=parseInt(n%10);

        s=parseInt(s+Math.pow(a,len));

        n=parseInt(n/10);

    }

    if(nn==s)

    {

        document.getElementById("out3").style.color="green";

        document.getElementById("out3").innerHTML=""+"nn+" is an
Armstrong number";
    }

    else
    {

        document.getElementById("out3").style.color="red";

        document.getElementById("out3").innerHTML=""+"nn+" is
not an Armstrong number";
    }
}

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        }

        return false;
    }

    //NEON

function neonCheck()
{
    var num=document.getElementById("neon").value;

    var nn=parseInt(num);

    var n= Math.pow(nn, 2)

    var a=0,s=0;

    while(n>0)
    {

        a=parseInt(n%10);

        s=parseInt(s+a);

        n=parseInt(n/10);

    }

    if(nn==s)
    {

        document.getElementById("out4").style.color="green";

        document.getElementById("out4").innerHTML="" +nn+" is a
Neon number";
    }

    else
    {

        document.getElementById("out4").style.color="red";

        document.getElementById("out4").innerHTML="" +nn+" is
not a Neon number";
    }

    return false;

}

</script>

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</head>

<body bgcolor="#88C4E3">

<center>

    <h1 style="color:#8B103F">C A L C U L A T O
R<h1></h1><br/><hr/><br/>

    <table border="0">

        <tr>

            <th>Prime</th>

            <td><input type="text" required name="prime"
id="prime" placeholder="Enter a number"></td>

            <td><input type="submit" required name="Check"
value="Check" id="prim" onclick="return primeCheck()" ></td>

            <th><span id="out1"></span></th>

        </tr>

        <tr>

            <th>Palindrome</th>

            <td><input type="text" required name="palin"
id="palin" placeholder="Enter a number"></td>

            <td><input type="submit" required name="Check"
value="Check" id="palinn" onclick="return palinCheck()" ></td>

            <th><span id="out2"></span></th>

        </tr>

        <tr>

            <th>Armstrong</th>

            <td><input type="text" required name="arms"
id="arms" placeholder="Enter a number"></td>

            <td><input type="submit" required name="Check"
value="Check" id="arms" onclick="return armsCheck()" ></td>

            <th><span id="out3"></span></th>

        </tr>

        <tr>

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<th>Neon</th>  
  
    <td><input type="text" required name="neon"  
id="neon" placeholder="Enter a number"></td>  
  
    <td><input type="submit" required name="Check"  
value="Check" id="neonn" onclick="return neonCheck()"></td>  
  
    <th><span id="out4"></span></th>  
  
</tr>  
  
<tr><th colspan="4"><br></th></tr>  
  
<tr>  
  
    <th>Check All</th>  
  
    <td><input type="text" required name="all"  
id="checkall" placeholder="Enter a number" onchange="fillNumber()"></td>  
  
    <td><input type="submit" required name="Check"  
value="Check All" id="checkalll" onclick="CheckAll()"></td>  
  
  
    <th>&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&~  
  
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</tr>  
  
</table>  
  
</center>  
</body>  
</html>
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