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<!DOCTYPE html>
<!-- A small program giving all prime numbers between any given two integer numbers. -->
<!-- SL wrote in 1986 using GB in Beijing; re-wrote it using QB in 1989 in Dayron, OH; re-wrote using "C"
      in 1990 in Dayton, OH; re-wrote using JavaScript on August 12-13, 2020 in Braselton, GA. Alas!!! 34
      years have been past!!! -->
<html>
<head>
  <title>Prime Number</title>
</head>
<body>
<p>This program checks if a given number is a prime number. If not, then its divisors are liasted.<br>
  此程序检查任一给定数字是否素数。如否，则其除数（可以将其整除的数字）将一一列出。
</p>

  <p>Enter an number (输入一个数字) <input type = "text" name = "" id = "no"></p>
  <p>If the input number is large, the calculation may take a little while. Be patient!<br>
  如果输入的数值较大，计算可能需要一点儿时间。请稍候。</p>
  <button onclick = "prmn()">Continue<br>继续</button>
  <div id = "prm"></div>
<script>
  function prt(opt)
  {
    myOutput = document.getElementById("prm"); // "Id" is the same as pre-defined in the HTML
code above.
    myOutput.innerHTML += opt;           // "print" can be anyt identifier.
  }                                     // it is important to use "+=", rather than "=".

  function prmn()
  {
    var number = parseInt(document.getElementById("no").value);
    //note: "document.getElementById("no1").value" returns a string. "parseInt() must be used to
    convert it to a integer number."

    if (isNaN(number) == true || (number) <= 0 || number.length == 0)
    {
      alert("You must enter a number greater than 0 in the box.请在数字输入框内输入一个大于零的
      数字。");
      document.getElementById("continue").onclick = function ()
      {
        location.href = "check_prmn_fnl.html";
      }
    }
  }
</script>

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}

j = number;
var chk = 0;
for (var i = 2; i <= j - 1; i++)
{
    if ((j % i) == 0)
        //prt(" Number " + j + " is not a prime number. And it divisor(s) is listed below. <br>");
        {
            chk = 1;
            prt("<br>Non-prime number (非素数) : " + j + "; Divisor (除数) : " + i + "<br>");
        }
}

if (chk != 1)
{
    //document.write(j + "<br>");
    //document.getElementById("prm").innerHTML += j + "<br>";
    prt("<br>Yes. Number " + j + " is a prime number. <br>");
    prt("数字 " + j + " 是一个素数。");
}
}

</script>
</body>
</html>
```