Practical-3

Aim: JS scope & hoisting, Function, Operators and Loops, Date\

• Print prime Numbers up to given value in the input box

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       C: > Users > Administrator > Desktop > DSA PRAC > wt > ♦ index.html > ♦ html
              <html lang="en">
              <head>
                  <meta charset="UTF-8">
                  <meta http-equiv="X-UA-Compatible" content="IE=edge">
                  <meta name="viewport" content="width=device-width, initial-scale=1.0">
品
                  <title>Document</title>
                  <input type="number" name="" id="number">
                  <button onclick="demo()">click</button>
(\mathbf{f})
                <script>
                  function demo(){
                      var num= document.getElementById("number").value;
var isprime;
                      for(var i=2; i<=num;i++){</pre>
                           isprime=1;
                               for(var j=2; j<=i/2; j++){
                                   if(i%j==0){
                                        isprime=0;
                                        break;
                               if(isprime==1){
                                   document.write(i+"<Br>");
                </script>
              </html>
        32
```

Output:

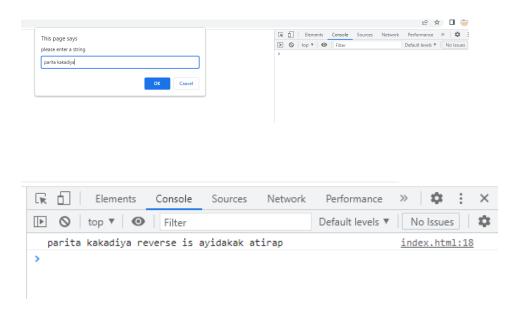


Conclusion: in this practical we learn that how to print prime number up to given value using the input box in JavaScript.

Write Script to reverse the given input string

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      M Get Started
                       o index.html ×
       C: > Users > Administrator > Desktop > DSA PRAC > wt > ↔ index.html > ↔ html > ↔ script
             <!DOCTYPE html>
ಲ್ಗ
             <html lang="en">
             <head>
                 <meta charset="UTF-8">
                  <meta http-equiv="X-UA-Compatible" content="IE=edge">
                  <meta name="viewport" content="width=device-width, initial-scale=1.0">
昭
                  <title>Document</title>
              <script type="text/javascript">
(1)
                  var string = prompt("please enter a string");
                  var strLen = string.length;
var revstr ='';
for (var i = strLen-1;i>=0;i--){
                      revstr += string[i];
                  console.log(`${string} reverse is ${revstr}`);
```

Output:



Conclusion: in this practical we learn that how to write a reverse script of given input string in JavaScript.

• Create Dynamic Multiplication Table using inputs

```
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                              C: > Users > Administrator > Desktop > DSA PRAC > wt > ↔ index.html > ↔ html
                                          <!DOCTYPE html:
å
                                                       mttable {
  font-family: Arial, Helvetica, sans-serif;
  border-collapse: collapse;
                                                       #mtable td, #mtable th {
border: 1px solid ■#ddd;
                                                         padding: 8px;
                                                       | }
#mtable tr:nth-child(even){background-color: ■#FFF8DC;}
      ∨ WATCH
                                                      #mtable tr:hover {background-color: #F5DEB3:}
                                                  V CALL STACK
         Open i... RUNNING
                                                      function multiplicationTable() {
var table;
table='';
                                                       var num=document.getElementById("number").value;
if(num==null || num=="")
                                                       num=5;
for(i=1;i<=10;i++){
                                                             table+=''+num+'*'+i+'='+num*i+'';
                                                       table+='';
document.getElementById("result").innerHTML = table;
        Uncaught Except...
```

Output:



Conclusion: in this practical we learn that how to create multiplication tables using input in JavaScript.

• Find the Age from input date. (Ex. 17 Yrs., 3 Monts,13 Days)

```
index.html - WT - Visual Studio Code [Administrator]
         No Cor ∨ ⇔ … ⋈ Get Started
                                                                                                  □ C * * 5 II =
                                               JS p.is
      VARIABLES
£
                                      function ageCalculator() {
                                          //collect input from HTML form and convert into date format
                                          var userinput = document.getElementById("DOB").value;
                                          var dob = new Date(userinput);
                                          if(userinput==null || userinput==''){
                                          document.getElementById("message").innerHTML = "**Choose a date please!";
      ∨ WATCH
•
                                          //extract and collect only date from date-time string
var mdate = userinput.toString();
                                          var dobYear = parseInt(mdate.substring(0,4), 10);
                                          var dobMonth = parseInt(mdate.substring(5,7), 10);
                                          var dobDate = parseInt(mdate.substring(8,10), 10);
     ∨ CALL STACK
         ☼ Open i... RUNNING
                                          var today = new Date();
                                          var birthday = new Date(dobYear, dobMonth-1, dobDate);
                                          var diffInMillisecond = today.valueOf() - birthday.valueOf();
                                          var year_age = Math.floor(diffInMillisecond / 31536000000);
var day_age = Math.floor((diffInMillisecond % 31536000000) / 86400000);
      > LOADED SCRIPTS

∨ BREAKPOINTS 
⚠

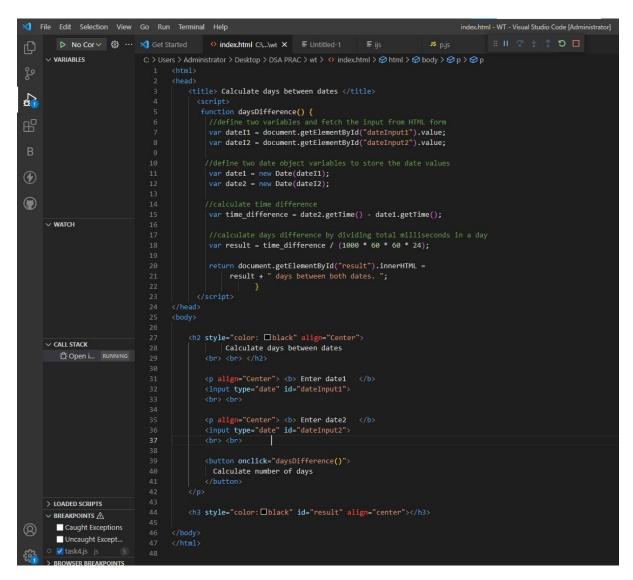
        Caught Exceptions
                                          if ((today.getMonth() == birthday.getMonth()) && (today.getDate() == birthday.getDate())) {
        ☐ Uncaught Except...
                                                  alert("Happy Birthday!");
      > BROWSER BREAKPOINTS
```

Output:



Conclusion: in this practical we learn that how to find the age from the date of birth in years, months and days in JavaScript.

Find the No. of Days between two given dates



Output:



Conclusion: in this practical we learn that how to find the number of days between two days in JavaScript.