PRACTICAL -3

1. Write a JavaScript program to find the area of circle, rectangle and triangle.

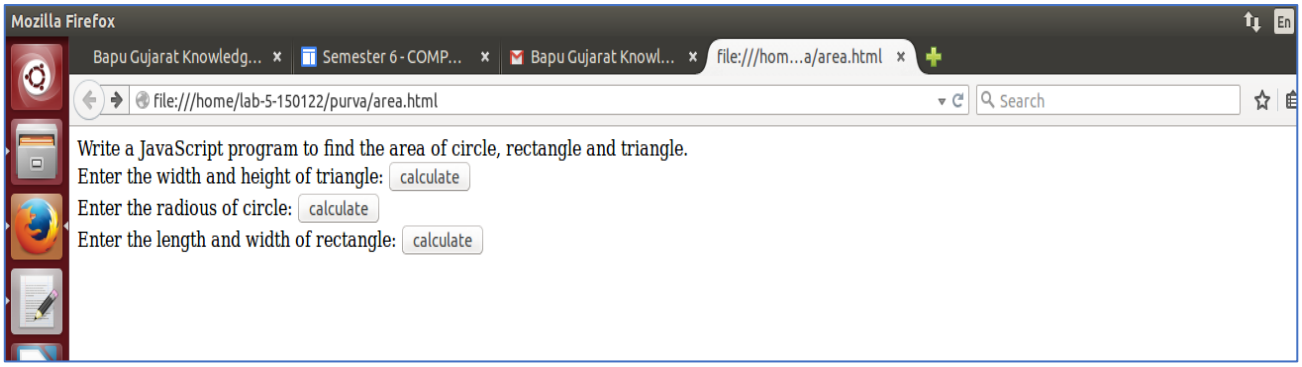
CODE:-

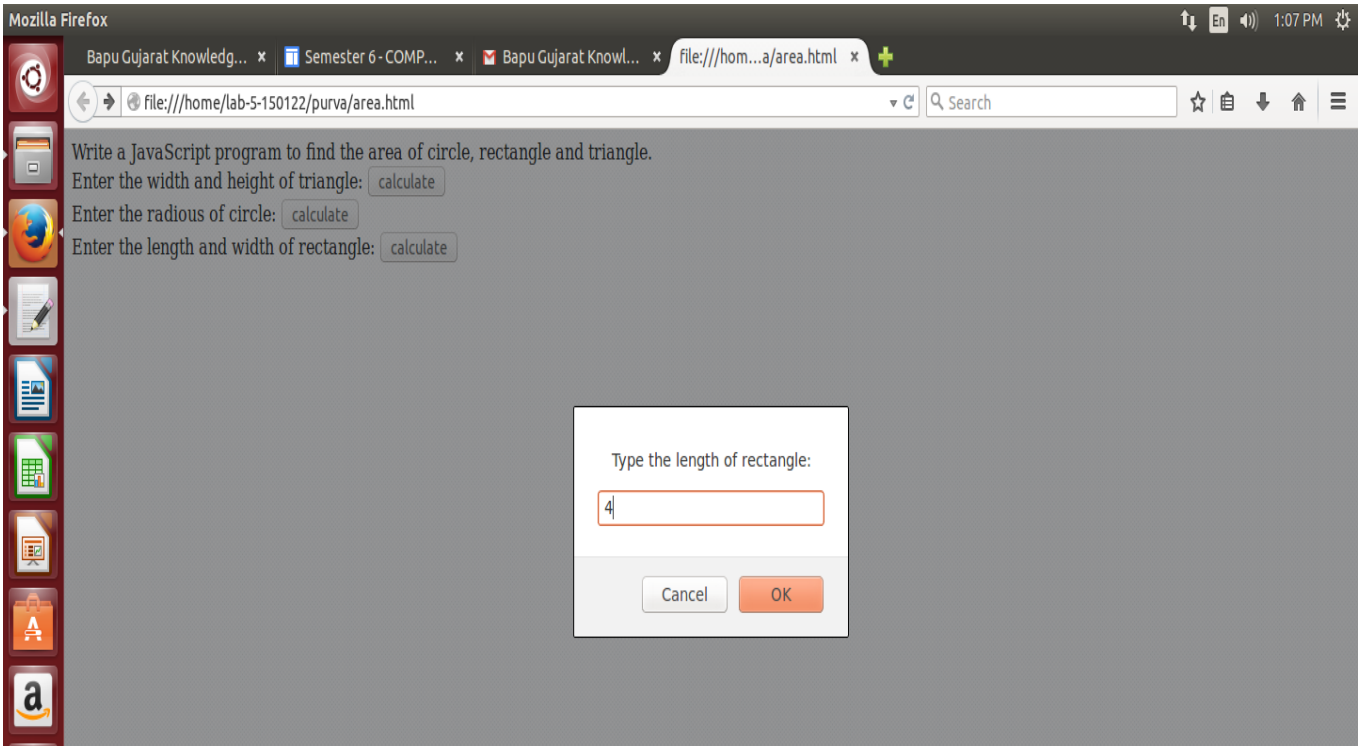
Write a JavaScript program to find the area of circle, rectangle and triangle.

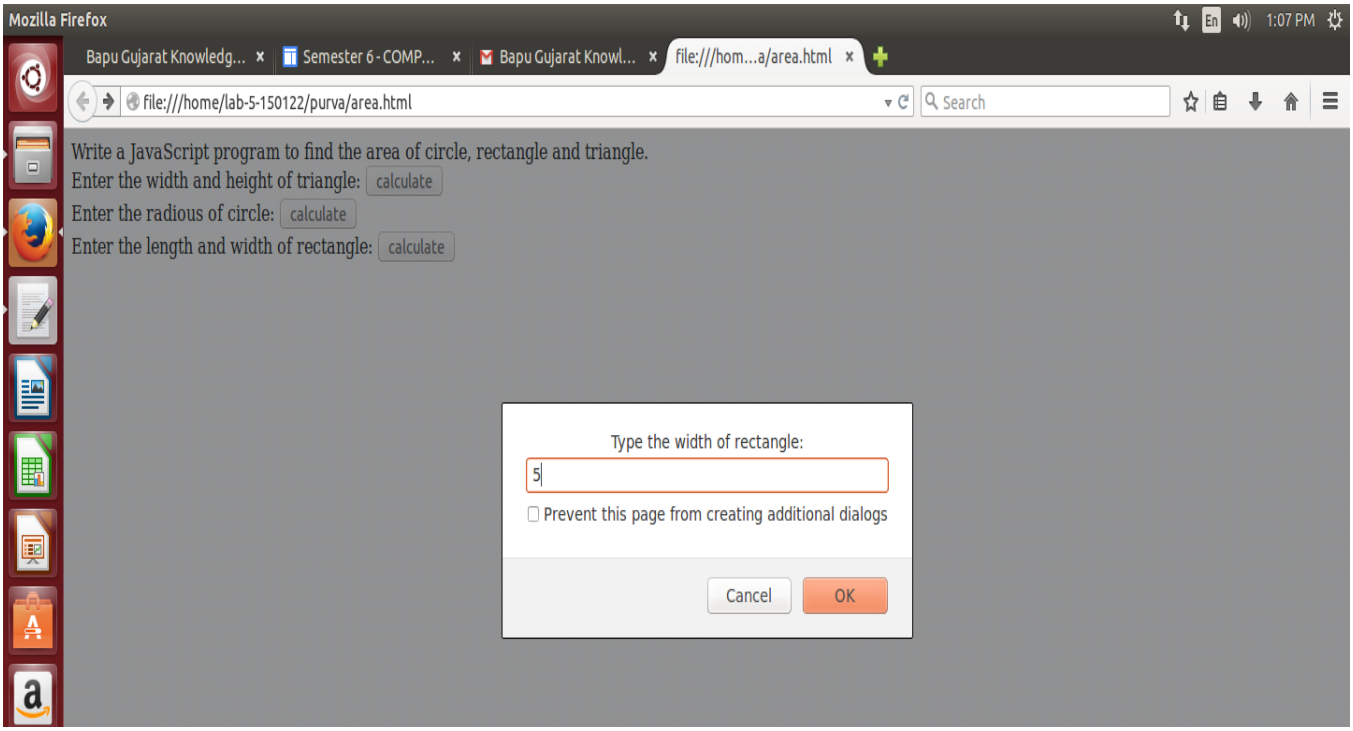
```
<html>
<head>
<script language="javascript">
function calculatetriangle()
{
 var base=parseInt(prompt("Type the width of triangle:"));
 var height=parseInt(prompt("Type the height of triangle:"));
document.write("<p>The area of triangle: "+(base*height*0.5)+"</p>");
}
function calculatecircle()
{
 var radious=parseInt(prompt("Type the radious of circle:"));
document.write("<p>The area of circle: "+(3.14*radious*radious)+"</p>");
}
function calculaterectangle()
{
 var length=parseInt(prompt("Type the length of rectangle:"));
 var width=parseInt(prompt("Type the width of rectangle:"));
document.write("<p>The area of rectangle: "+(length*width)+"</p>");
}
</script>
<body>
<form name=form1>
Enter the width and height of triangle:
<input type="button" value="calculate" onClick='calculatetriangle();'><br/>
```

```
Enter the radious of circle:
<input type="button" value="calculate" onClick='calculatecircle();'></br>
Enter the length and width of rectangle:
<input type="button" value="calculate" onClick='calculaterectangle();'>
</form>
</body>
</html>
```

OUTPUT:-






Mozilla Firefox
1:07 PM
Bapu Gujarat Knowledg...
Semester 6 - COMP...
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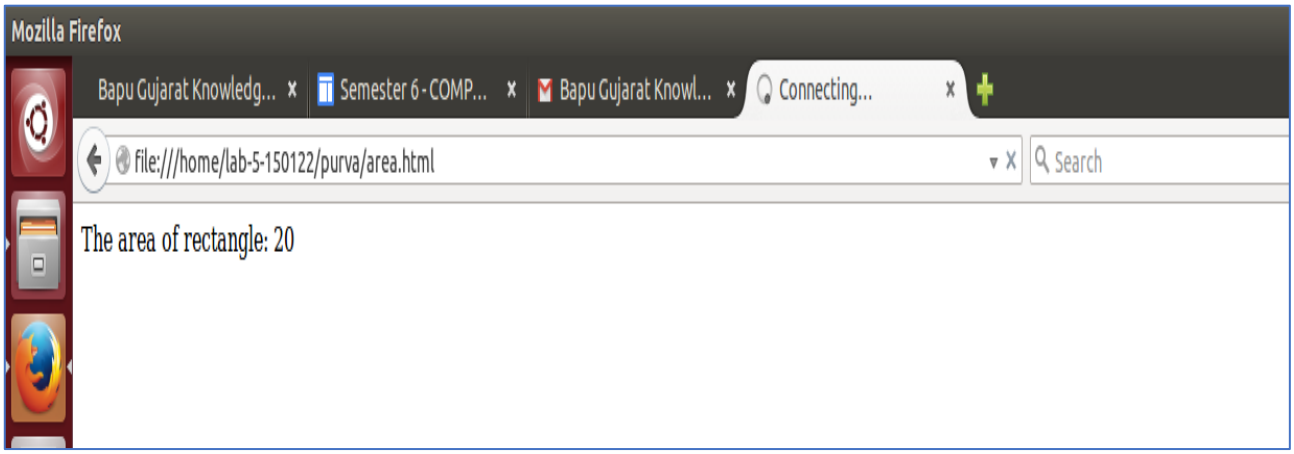
file:///hom...a/area.html
file:///home/lab-5-150122/purva/area.html
Search
Write a JavaScript program to find the area of circle, rectangle and triangle.
Enter the width and height of triangle: calculate
Enter the radious of circle: calculate
Enter the length and width of rectangle: calculate
Type the width of rectangle:
5
Prevent this page from creating additional dialogs
Cancel
OK

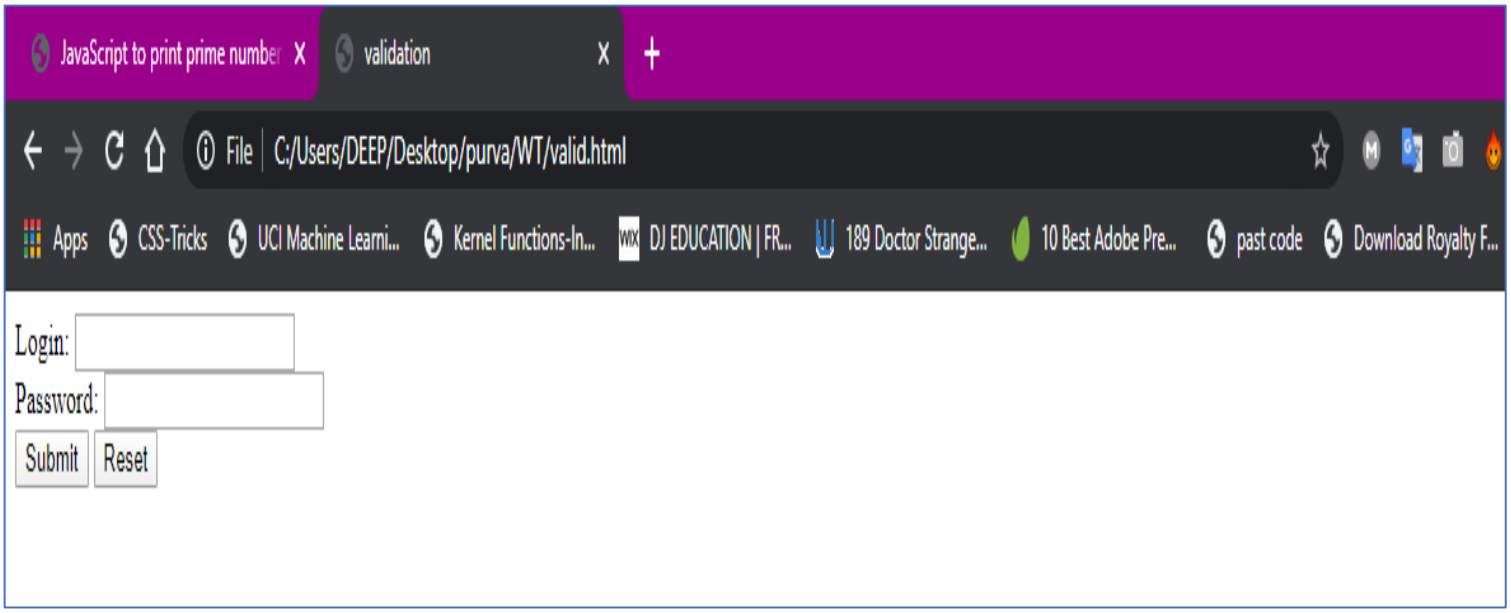

Mozilla Firefox
Bapu Gujarat Knowledg...
Semester 6 - COMP...
Bapu Gujarat Knowl...
Connecting...
file:///home/lab-5-150122/purva/area.html
Search
The area of rectangle: 20

2. Write a JavaScript program to perform form validation.

CODE:-

```
<html>
<head>
<title>validation</title>
<script language="javascript">
function check(){
    if(frmlogin.login.value==""){
    alert('please provide login name');
    return false;
    }
    if(frmlogin.password.value==""){
    alert('please provide password');
    return false;
    }
}
</script>
</head>
<body>
<form name="frmlogin" action="" method="post" onsubmit="return check()">
Login: <input type="text" name="login"><br>
Password: <input type="password" name="password"><br>
<input type="submit" name="submit" value="Submit">
<input type="reset" name="reset" value="Reset">
</form>
</body>
</html>
```

OUTPUT:-


JavaScript to print prime number
validation
File C:/Users/DEEP/Desktop/purva/WT/valid.html
Apps
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Kernel Functions-In...
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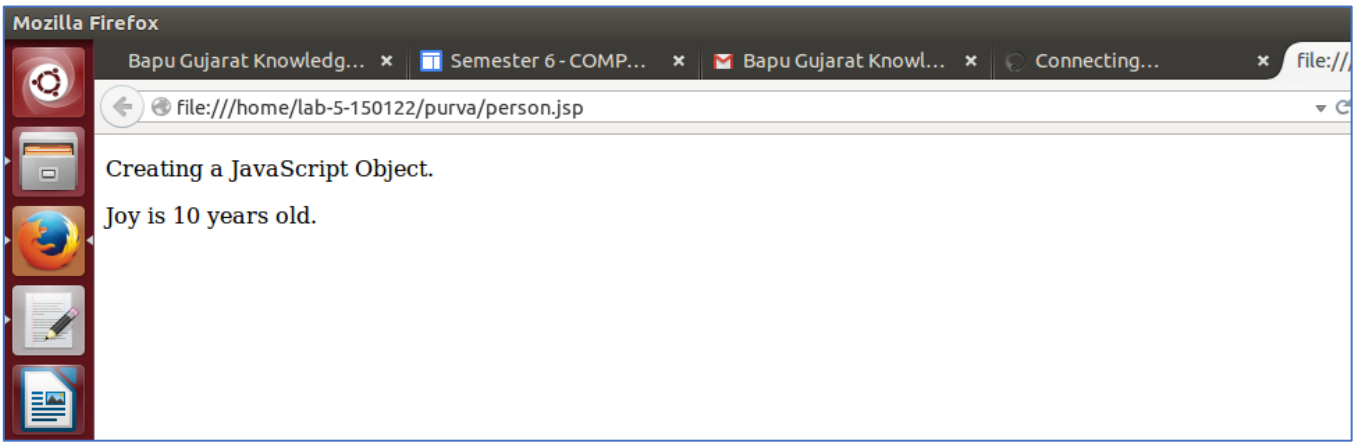
189 Doctor Strange...
10 Best Adobe Pre...
past code
Download Royalty F...
Login:
Password:
Submit
Reset

3. Write a JavaScript to display person detail using object.

CODE:-

```
<!DOCTYPE html>
<html>
<body>
<p>Creating a JavaScript Object.</p>
<p id="demo"></p>
<script>
var person = {firstName:"Joy", lastName:"Patel", age:10, eyeColor:"blue"};
document.getElementById("demo").innerHTML =
person.firstName + " is " + person.age + " years old.";
</script>
</body>
</html>
```

OUTPUT:-

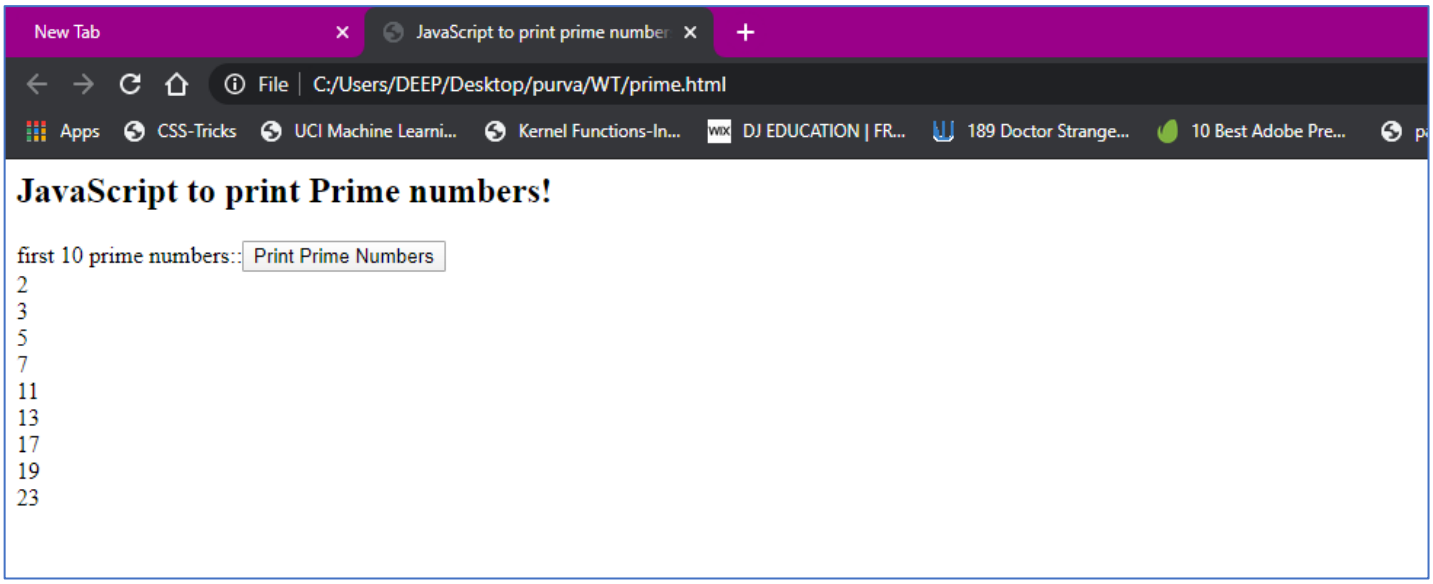


4. Write a JavaScript to find first 10 prime numbers.

CODE:-

```
<html>
   <head>
      <title>JavaScript to print prime numbers!</title>
      <script>
         function printPrime() {
            var i = 0;
            var j = 0;
            for (i = 1; i <= 25; i++) {
               c = 0;
            for (j = 1; j <= i; j++) {
                  if (i % j == 0) {
                     c++;
                  }
               }
               if (c == 2) {
    document.getElementById("result").insertAdjacentHTML('beforeend', i + '<br>');
               }
            }
         }
      </script>
   </head>
   <body>
      <h2>JavaScript to print Prime numbers!</h2>
      first 10 prime numbers::<input type="submit" value="Print Prime Numbers" onclick="printPrime()" name="print" />
      <div id="result"></div>
   </body>
</html>
```

OUTPUT:-


New Tab
JavaScript to print prime number
File | C:/Users/DEEP/Desktop/purva/WT/prime.html
Apps
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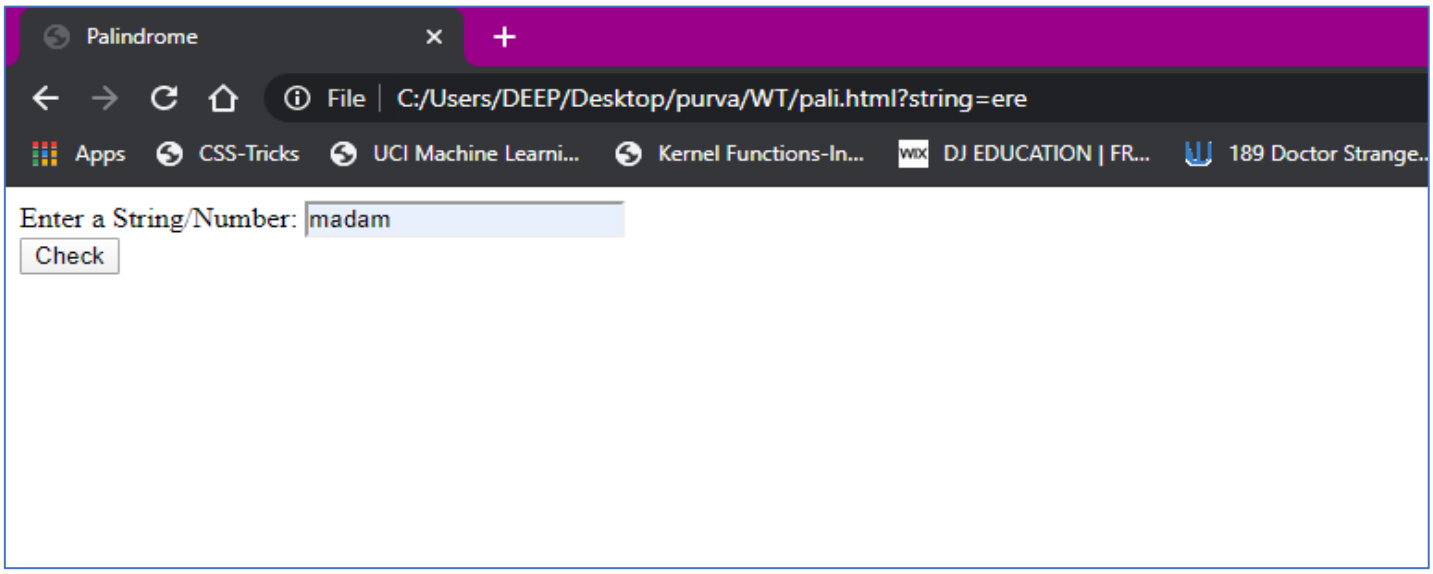
DJ EDUCATION | FR...
189 Doctor Strange...
10 Best Adobe Pre...
JavaScript to print Prime numbers!
first 10 prime numbers::
Print Prime Numbers
2
3
5
7
11
13
17
19
23

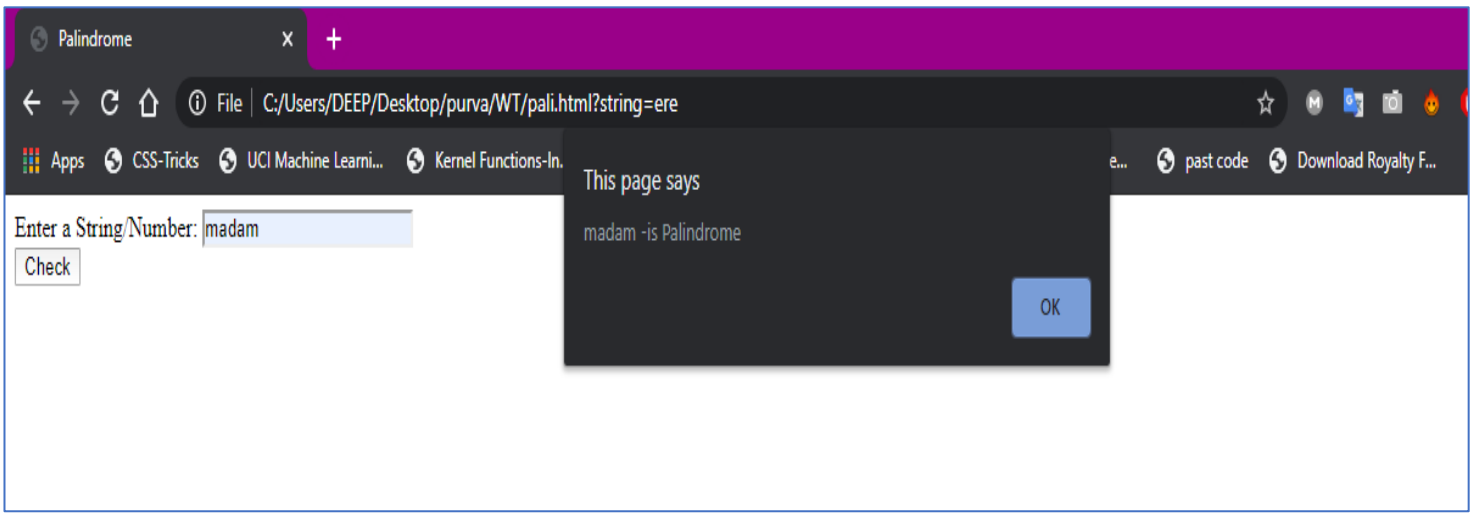
5. Write a JavaScript to check input string is palindrome or not.

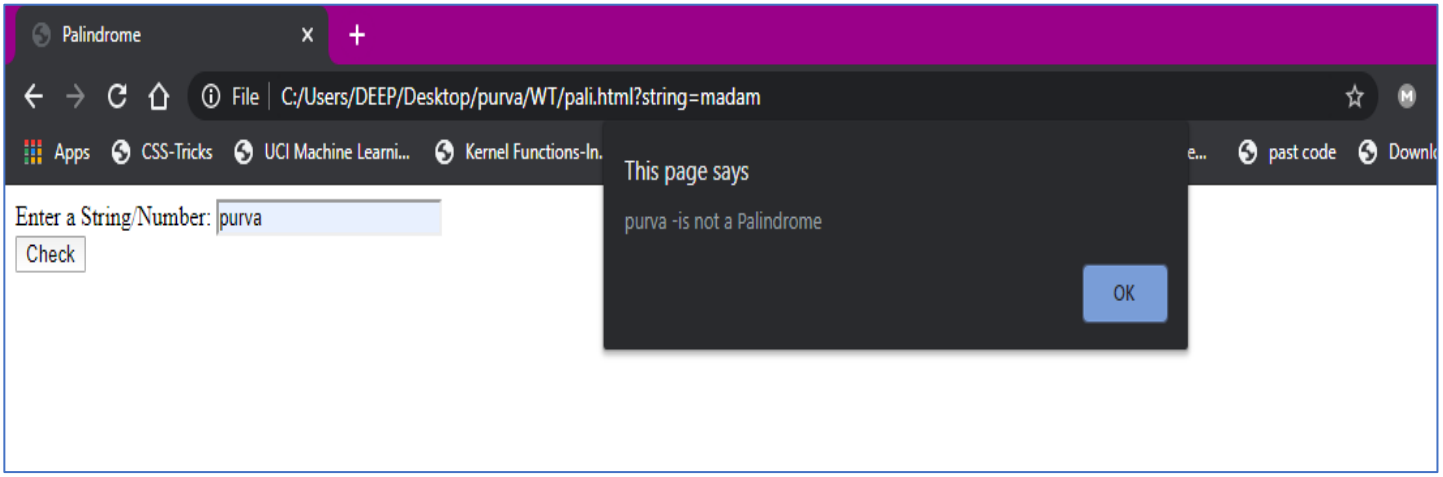
CODE:-

```
<!DOCTYPE html>
<html>
<head>
<title>Palindrome </title>
<script type="text/javascript">
function checkPalindrome() {
var revStr = "";
var str = document.getElementById("str").value;
var i = str.length;
for(var j=i; j>=0; j--) {
revStr = revStr+str.charAt(j);
}
if(str == revStr) {
alert(str+" -is Palindrome");
} else {
alert(str+" -is not a Palindrome");
}
}
</script>
</head>
<body>
<form>
Enter a String/Number: <input type="text" id="str" name="string" /><br />
<input type="submit" value="Check" onclick="checkPalindrome();"/>
</form>
</body>
</html>
```

OUTPUT:-


Palindrome
File | C:/Users/DEEP/Desktop/purva/WT/pali.html?string=ere
Apps
CSS-Tricks
UCI Machine Learni...
Kernel Functions-In...
DJ EDUCATION | FR...
189 Doctor Strange...
Enter a String/Number: madam
Check


Palindrome
File | C:/Users/DEEP/Desktop/purva/WT/pali.html?string=ere
Apps
CSS-Tricks
UCI Machine Learni...
Kernel Functions-In.
past code
Download Royalty F...
Enter a String/Number: madam
Check
This page says
madam -is Palindrome
OK


Palindrome
File | C:/Users/DEEP/Desktop/purva/WT/pali.html?string=madam
Apps
CSS-Tricks
UCI Machine Learni...
Kernel Functions-In.
past code
Enter a String/Number: purva
Check
This page says
purva -is not a Palindrome
OK