

CSE3002 – Internet and Web Programming

Lab – 4

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Question – 1

Read the number and check whether it is odd or even in the click event of button titled as odd.

Question – 2

Read the number and check whether the given number is prime number or not and display the same in 2nd text field in the click event of prime button.

Question – 3

The teacher teaches number system to the students. The number systems are binary , octal and hexadecimal. Teacher gave home work to the students to do conversion. So develop a minimal web application to read the number in decimal format and display in the corresponding number format based on the click event of the user.

Answer

The above three questions are done in single HTML and JS file

For this question I'm importing a JS file which contains the code required for the above three questions instead of writing all the JS code in a single script tag

HTML Code

```
<!DOCTYPE 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">
  <title>JS Exercises</title>
</head>
<body style="margin: 50px; border: 1px solid; padding: 40px; background-color: #D6E5FA">
  <script src="1.js" language = "Javascript"></script>
  <h1 style="font-size: x-large; font-family: 'Lucida Sans', 'Lucida Sans Regular', 'Lucida Grande', 'Lucida Sans Unicode', Geneva, Verdana, sans-serif;"> Even and odd calculator using JS </h1>
  <form name = "f1">
    <input type="text" name="t1"><br><br><br>
    <input type="button" value="Odd" name="b1" onclick = "function1()" >
  </form>
  <br><br><br>

  <hr style="border: 1px solid;">
  <br><br>
  <h1 style="font-size: x-large; font-family: 'Lucida Sans', 'Lucida Sans Regular', 'Lucida Grande', 'Lucida Sans Unicode', Geneva, Verdana, sans-serif;"> Check whether the given number is prime or not </h1>
  <form name = "f2">
    <input type="text" name="t2">
    <input type="text" name="t3">
    <br><br><br>
    <input type="button" value="Prime" onclick = "function2()" >
  </form>
  <br><br>

  <hr style="border: 1px solid;">
  <br><br>
  <h1 style="font-size: x-large; font-family: 'Lucida Sans', 'Lucida Sans Regular', 'Lucida Grande', 'Lucida Sans Unicode', Geneva, Verdana, sans-serif;"> Conversion of a number to Hexadecimal , Octal and Binary forms</h1>
  <form name = "f3">
    <input type="text" name="t4">
    <br><br><br>
    <input type="button" value="Submit number" onclick = "function3()" >
    <p id = "demo"></p>
  </form>

</body>
```

```
</html>
```

JavaScript Code

```
function function1()
{
    const v = parseInt(document.f1.t1.value);
    if (v % 2 == 0)
    {
        alert("Even number");
    }
    else
    {
        alert("Odd number");
    }
}

function function2()
{
    const x = parseInt(document.f2.t2.value);
    let count = 0;
    for (let i = 1 ; i < x ; i++)
    {
        if (x % i == 0)
        {
            count += 1;
        }
    }
    if (count == 1)
    {
        alert("Prime number");
        document.f2.t3.value = "Prime Number";
    }
    else
    {
        alert("Not a prime number");
        document.f2.t3.value = "Not a Prime Number";
    }
}

function function3()
{
    const xo = parseInt(document.f3.t4.value);
    let hex = xo.toString(16);
    let bin = xo.toString(2);
    let oct = xo.toString(8);
```

```
document.getElementById("demo").innerHTML = "Hexadecimal Value is " + hex  
+ "<br>" + "Binary Value is " + bin + "<br>" + "Octal Value is " + oct ;  
document.getElementById("demo").style.fontFamily = "Verdana,bold,arial";  
document.getElementById("demo").style.fontWeight = "900";  
}
```

Output

Question – 1



Question – 2

127.0.0.1:5500/Lab%20-%204/4-1.html

Gmail Instagram V-PROPEL Moodle Github Hackerrank

127.0.0.1:5500 says
Not a prime number
OK

Odd

Check whether the given number is prime or not

30

Prime

Check whether the given number is prime or not

30 Not a Prime Number

Prime

127.0.0.1:5500/Lab%20-%204/4-1.html

Gmail Instagram V-PROPEL Moodle Github Hackerrank

127.0.0.1:5500 says
Prime number
OK

Even and odd calculator using JS

Odd

Check whether the given number is prime or not

2

Prime

Check whether the given number is prime or not

Question – 3

Conversion of a number to Hexadecimal , Octal and Binary forms

Hexadecimal Value is 29

Binary Value is 101001

Octal Value is 51

Conversion of a number to Hexadecimal , Octal and Binary forms

Hexadecimal Value is 100f

Binary Value is 1000000001111

Octal Value is 10017

Question – 4

Design a webpage to include the video of addition of two numbers tutorial to the kids. In the same page provide the facility for checking the knowledge gained by the student.

Answer

HTML Code

```
<!DOCTYPE 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">
  <title>Addition of two numbers</title>
</head>
<body style="margin: 50px; border: 1px solid; padding: 40px; background-color: #D6E5FA">
  <script src="2.js" language = "Javascript"></script>
  <h1 style="font-size: x-large; font-family: 'Lucida Sans', 'Lucida Sans Regular', 'Lucida Grande', 'Lucida Sans Unicode', Geneva, Verdana, sans-serif;"><u>Addition of Numbers</u></h1>
  <br><br>
  <embed type="video/webm" src="Add.mp4" width="600" height="500">
  <br><br>
  <h3 style="font-family: Arial, Helvetica, sans-serif;">Test your knowledge with below questions</h3>
  <form name = "f1" style="font-size: x-large;">
    24 + 45 =
    <input type="text" size="4" maxlength="4" name="t1"><br><br>
    56 + 105 =
    <input type="text" size="4" maxlength="4" name="t2"><br><br>
    42 + 63 =
    <input type="text" size="4" maxlength="4" name="t3"><br><br>
    <input type="button" value="Submit Answers" name="b1" onclick =
"function1()">
  </form>
  <br><br>
  <div id = "one"></div>
  <div id = "two"></div>
  <div id = "three"></div>
  <br><br>
```



```

<hr style="border: 1px solid;">
<br><br>
<h3 style="font-family: Arial, Helvetica, sans-serif;">Make your own
question and try getting the answer</h3>
<form name = "f2" style="font-size: x-large;">

    <input type="text" size="4" maxlength="4" name="t4"> +
    <input type="text" size="4" maxlength="4" name="t5"> =
    <input type="text" size="4" maxlength="4" name="t6">
    <br><br>
    <input type="button" value="Submit Question and Answer" name="b1"
onclick="function2()">
</form>
<br><br>
<div id="four"></div>

</body>
</html>

```

JavaScript Code

```

function function1()
{
    const x = parseInt(document.f1.t1.value);
    const y = parseInt(document.f1.t2.value);
    const z = parseInt(document.f1.t3.value);
    if (x == 69)
    {
        document.getElementById("one").innerHTML = "Answer for first question
is correct";
        document.getElementById("one").style.fontFamily =
"Verdana,bold,arial";
        document.getElementById("one").style.fontWeight = "900";
    }
    else
    {
        document.getElementById("one").innerHTML = "Answer for first question
is wrong";
        document.getElementById("one").style.fontFamily =
"Verdana,bold,arial";
        document.getElementById("one").style.fontWeight = "900";
    }
    if (y == 161)
    {
        document.getElementById("two").style.fontFamily =
"Verdana,bold,arial";
        document.getElementById("two").style.fontWeight = "900";
    }
}

```

```

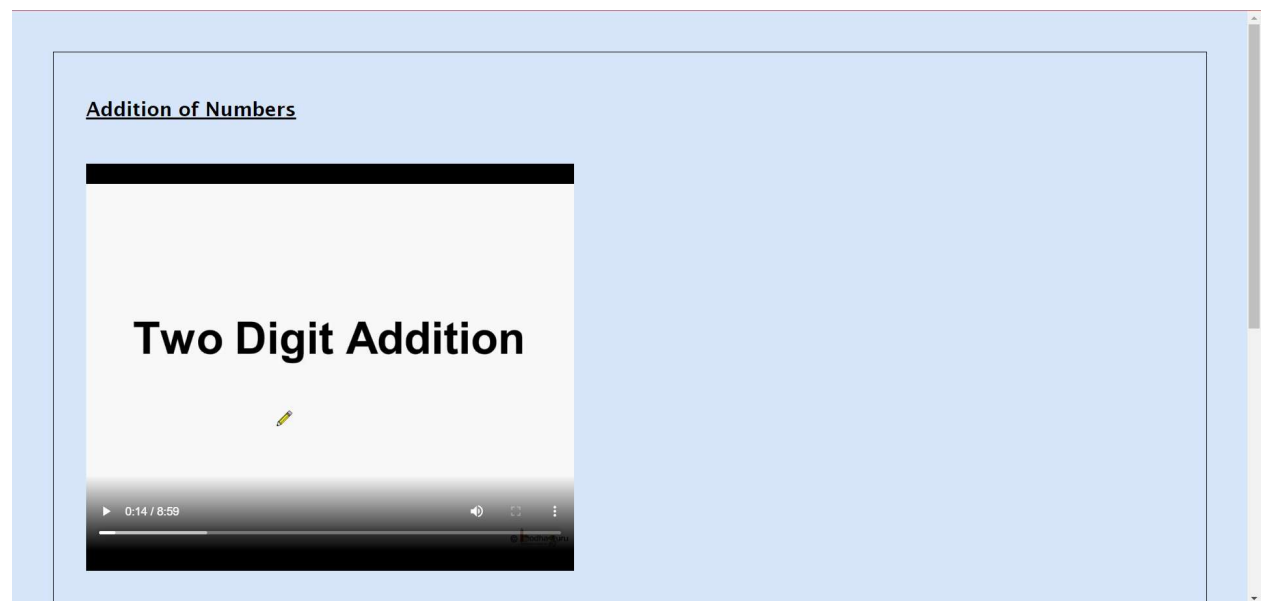
        document.getElementById("two").innerHTML = "Answer for second question
is correct";
    }
    else
    {
        document.getElementById("two").style.fontFamily =
"Verdana,bold,arial";
        document.getElementById("two").style.fontWeight = "900";
        document.getElementById("two").innerHTML = "Answer for second question
is wrong";
    }
    if (z == 105)
    {
        document.getElementById("three").style.fontFamily =
"Verdana,bold,arial";
        document.getElementById("three").style.fontWeight = "900";
        document.getElementById("three").innerHTML = "Answer for third
question is correct";
    }
    else
    {
        document.getElementById("three").innerHTML = "Answer for third
question is wrong";
        document.getElementById("three").style.fontFamily =
"Verdana,bold,arial";
        document.getElementById("three").style.fontWeight = "900";
    }
}

function function2()
{
    const x = parseInt(document.f2.t4.value);
    const y = parseInt(document.f2.t5.value);
    const z = parseInt(document.f2.t6.value);
    const o = x + y;
    if (x + y == z)
    {
        document.getElementById("four").innerHTML = "Answer for question is
correct";
        document.getElementById("four").style.fontFamily =
"Verdana,bold,arial";
        document.getElementById("four").style.fontWeight = "900";
    }
    else
    {
        document.getElementById("four").innerHTML = "Answer for third question
is wrong , " + "The correct answer is " + o ;
    }
}

```

```
document.getElementById("four").style.fontFamily =  
"Verdana,bold,arial";  
document.getElementById("four").style.fontWeight = "900";  
}  
}
```

Output



Test your knowledge with below questions

24 + 45 =

56 + 105 =

42 + 63 =

Make your own question and try getting the answer

+ =

Test your knowledge with below questions

$24 + 45 =$

$56 + 105 =$

$42 + 63 =$

Answer for first question is correct
Answer for second question is correct
Answer for third question is correct

Make your own question and try getting the answer

+ =

Answer for question is correct

Test your knowledge with below questions

$24 + 45 =$

$56 + 105 =$

$42 + 63 =$

Answer for first question is wrong
Answer for second question is wrong
Answer for third question is wrong

Make your own question and try getting the answer

+ =

Answer for third question is wrong , The correct answer is 5

Thank you ma'am

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