Navachethan.M -1NT18IS099

Javascript Assignment

functions.html

```
<!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>Document</title>
</head>
<body>
    <p><b>1.Prime numbers</b></p>
    <button onclick="prime()">find prime</button>
    <p><b>2.Convert minutes to seconds</b></p>
    <form>
        <label for="input">Minutes</label>
        <input type="text" id="min">
        <input type="button" value="convert" onclick="min_t_sec()">
        <input id="ans">
    </form>
    <p><b>3.Points calculation</b></p>
    <form>
        <label for="win">Wins:</label>
        <input type="text" id="win">
        <label for="draw">Draw:</label>
        <input type="text" id="draw">
        <label for="loss">Loss:</label>
        <input type="text" id="loss">
        <input type="button" value="check" onclick="pointscal()">
    </form>
    <p><b>4. check ten</b></p>
    <form>
    <label for="a">value1:</label>
        <input type="text" id="a">
        <label for="b">value2:</label>
        <input type="text" id="b">
        <input type="button" value="result" onclick="checkten()">
        </form>
        <p><b>5. convert string to int</b></p>
        <button onclick="str_to_int()">str to int</button>
```

```
        <p><b>6. reverse array</b></p>
        <button onclick="revarr()">reverse array</button>
        <p><b>7. String array to number array</b></p>
        <button onclick="strarr_to_numarr()">convert str to int</button>

    <script src="functions.js"></script>
</body>
</html>
```

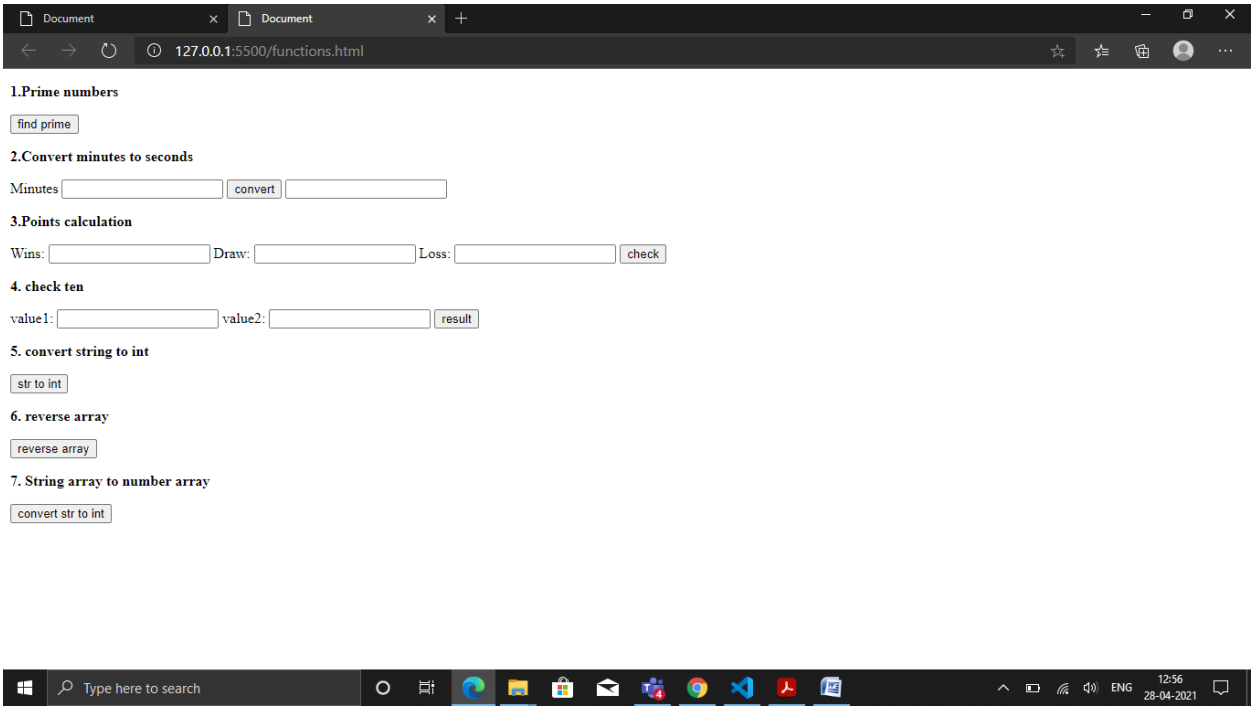
functions.js

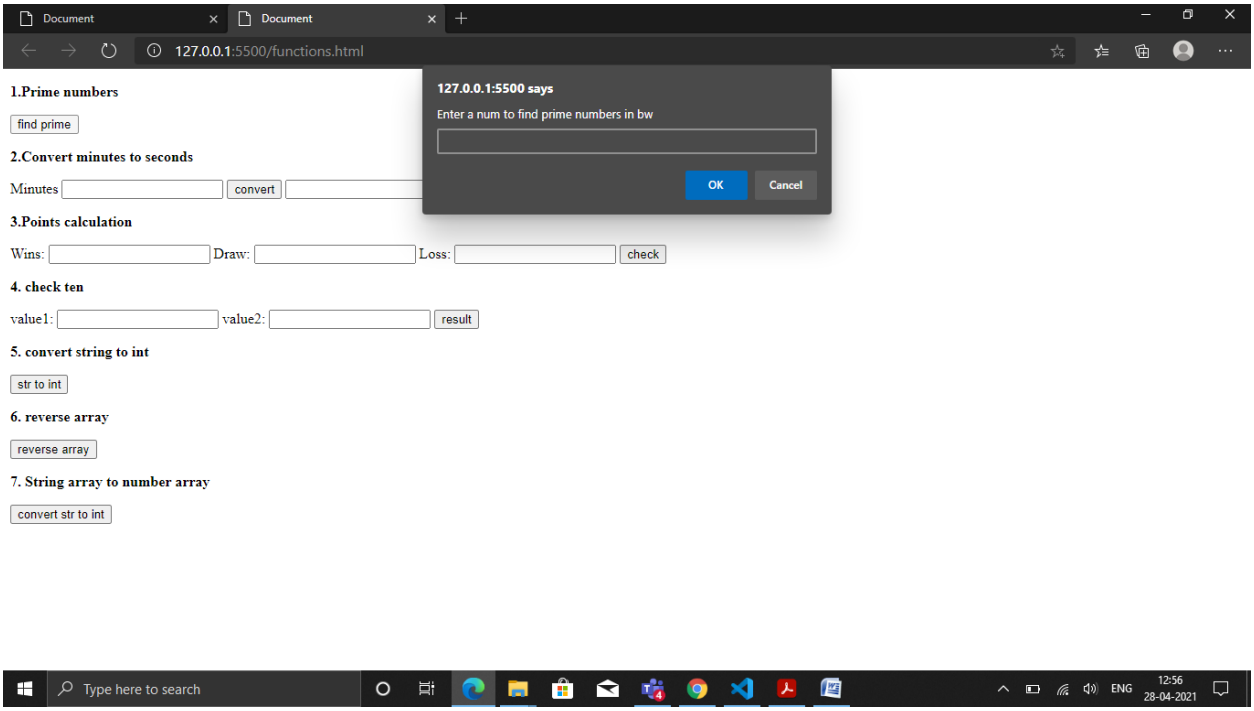
```
//1. Write a JavaScript function to get all prime numbers from 0 to a specified n
umber.

function prime(){
    let primearr = new Array;
    let spec_num = Number(prompt("Enter a num to find prime numbers in bw"));
    for(var i = 0; i<= spec_num; i++){
        flag = 0;
        for (var k = 2; k< i; k++){
            if(i%k == 0){
                flag = 1;
                break;
            }
        }
        if(i > 1 && flag == 0){
            primearr.push(i);
        }
    }
    alert(primearr);

}

// 2.Write a function that takes an integer minutes and converts it to seconds. C
onvert(5)->300, Convert(3)->180

function min_t_sec(){
    const min = parseInt(document.getElementById("min").value);
    const sec = min*60;
    document.getElementById("ans").value = sec;
}

/*3.Create a function that takes the number of wins, draws and losses and calcula
tes the number of
```

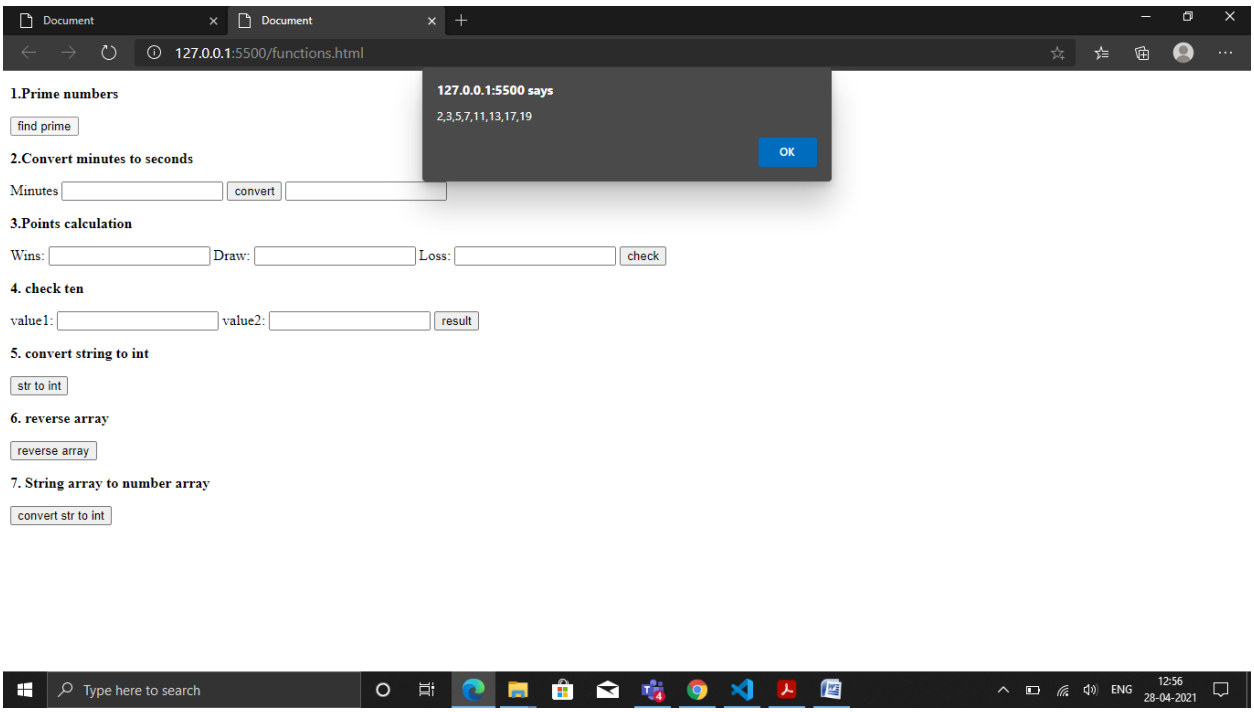
```
points a football team has obtained so far.
wins get 3 points
draws get 1 point
losses get 0 points
Ex: footballPoints(3, 4, 2) → 13
footballPoints(5, 0, 2) → 15 */

 function pointscal(){
   let win = parseInt(document.getElementById("win").value);
   let draw = Number(document.getElementById("draw").value);
   let loss = Number(document.getElementById("loss").value);
   score = (win * 3)+(draw * 1)+(loss * 0);
   alert("total points =" +score.toString())
 }

/* 4.Create a function that takes two arguments. Both arguments are integers, a a
nd b. Return true if
one of them is 10 or if their sum is 10
Ex: makesTen(9, 10) → true, makesTen(9, 9) → false, makesTen(1, 9) → true */

function checkten(){
    const a = parseFloat(document.getElementById("a").value);
    const b = parseFloat(document.getElementById("b").value);
    if(a == 10 || b == 10 || a+b ==10){
        alert("value is 10")
    }
    else{
        alert("value doesn't make ten  " +(a+b));
    }
}

/* 5. Create a function that takes a string and returns it as an integer.
Ex: stringInt("6") → 6, stringInt("1000") → 1000, stringInt("12") → 12 */

function str_to_int(){
 var a = prompt("Enter a value");
 var b = parseInt(a);
 alert(b);
}

/* 6.Write a function to reverse an array
Ex: reverse([1, 2, 3, 4]) → [4, 3, 2, 1], reverse([9, 9, 2, 3, 4]) → [4, 3, 2,
9, 9]
reverse([]) → [] */
```

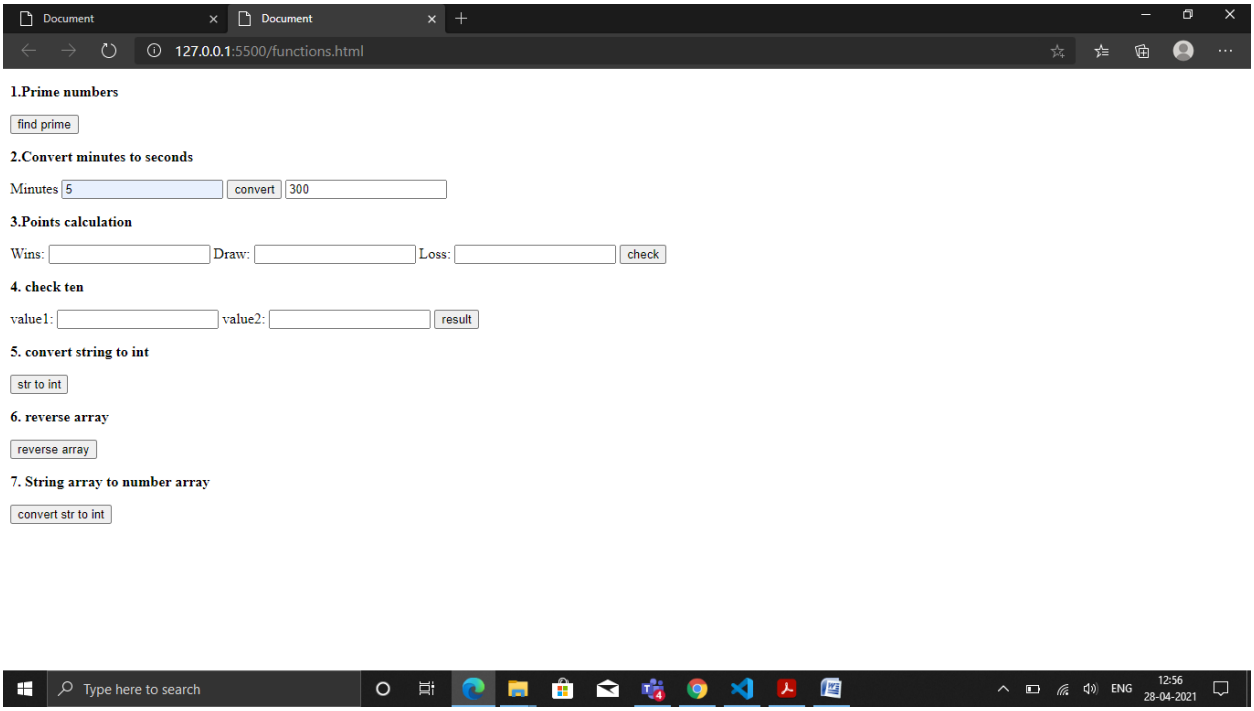
```
function revarr(){
    let arr = [1, 2, 3, 4];
   // let arr1 = arr.reverse();
   let arr1 = new Array;
   for (let i = arr.length-1; i>=0; i--){
       arr1.push(arr[i]);
   }
    alert(arr1);

}

/* 7. Create a function that takes as a parameter an array of "stringified" numbe
rs and returns an
array of numbers.
["1", "3", "3.6"] → [1, 3, 3.6] */
function strarr_to_numarr(){
    const toNumbers = arr => arr.map(Number);  // arrow function
alert(toNumbers(["1", "3", "3.6"]));
}
```

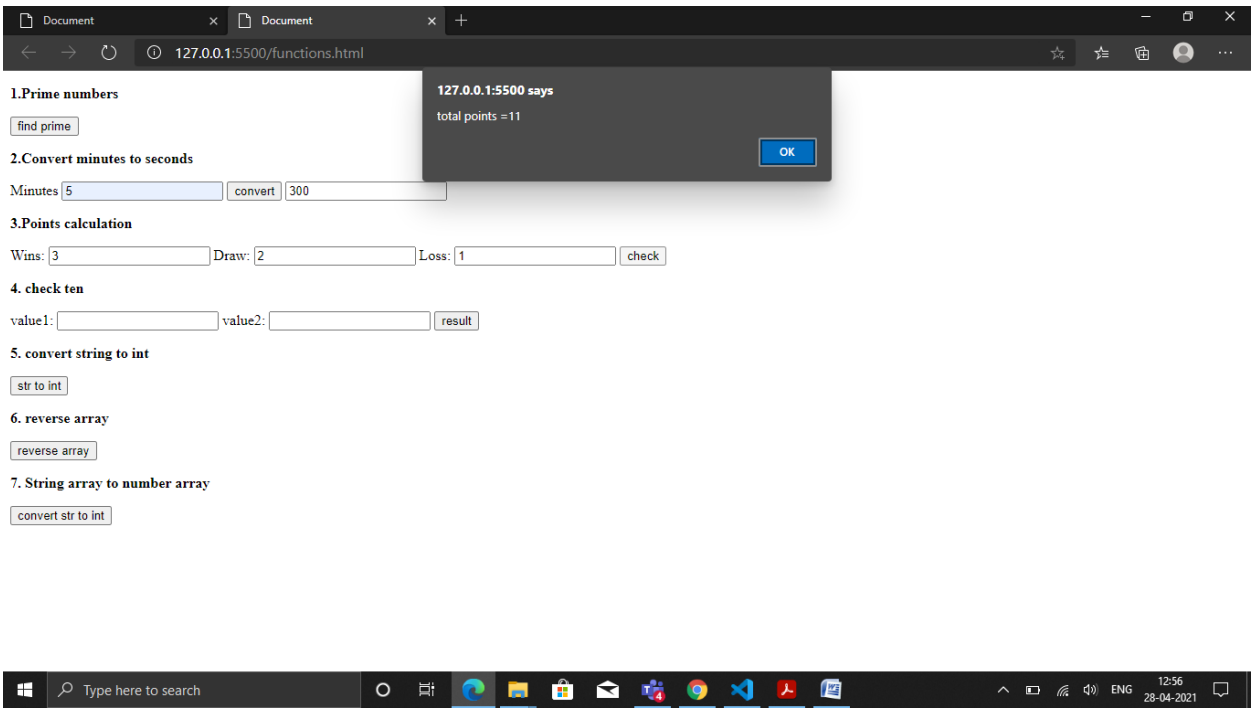
Output:

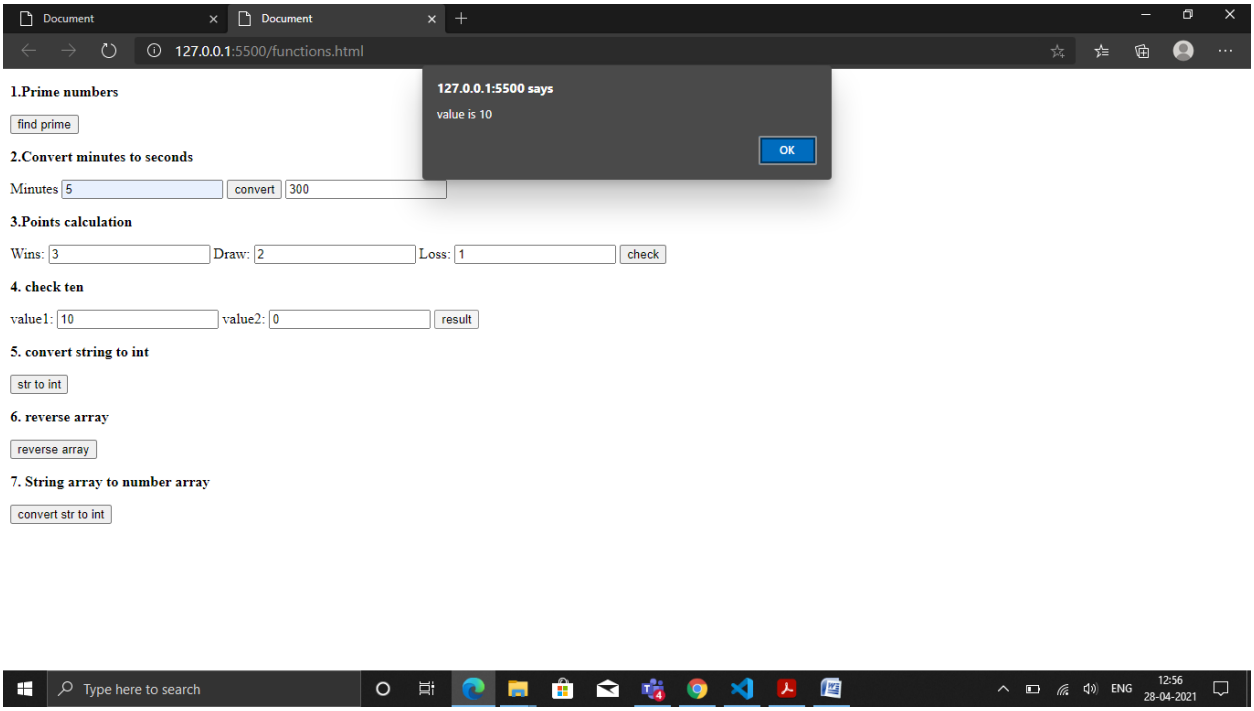


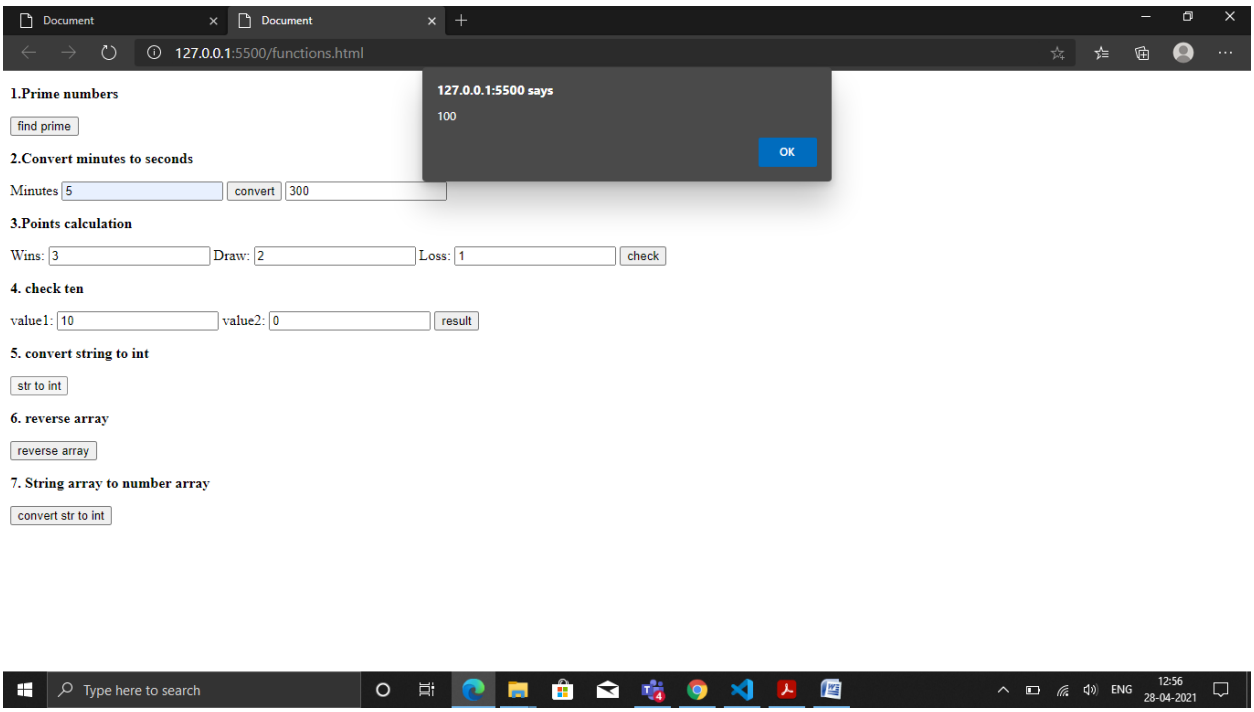

Document
Document
127.0.0.1:5500/functions.html
127.0.0.1:5500 says
Enter a num to find prime numbers in bw
OK
Cancel
1.Prime numbers
find prime
2.Convert minutes to seconds
Minutes
convert
3.Points calculation
Wins:
Draw:
Loss:
check
4. check ten
value1:
value2:
result
5. convert string to int
str to int
6. reverse array
reverse array
7. String array to number array
convert str to int
Type here to search
ENG
12:56
28-04-2021


Document
Document
127.0.0.1:5500/functions.html
127.0.0.1:5500 says
2,3,5,7,11,13,17,19
OK
1.Prime numbers
find prime
2.Convert minutes to seconds
Minutes
convert
3.Points calculation
Wins:
Draw:
Loss:
check
4. check ten
value1:
value2:
result
5. convert string to int
str to int
6. reverse array
reverse array
7. String array to number array
convert str to int
Type here to search
ENG
12:56
28-04-2021


Document
Document
127.0.0.1:5500/functions.html
1.Prime numbers
find prime
2.Convert minutes to seconds
Minutes 5 convert 300
3.Points calculation
Wins: Draw: Loss: check
4. check ten
value1: value2: result
5. convert string to int
str to int
6. reverse array
reverse array
7. String array to number array
convert str to int
Type here to search
ENG
12:56
28-04-2021


Document
Document
127.0.0.1:5500/functions.html
127.0.0.1:5500 says
total points =11
OK
1.Prime numbers
find prime
2.Convert minutes to seconds
Minutes 5 convert 300
3.Points calculation
Wins: 3 Draw: 2 Loss: 1 check
4. check ten
value1: value2: result
5. convert string to int
str to int
6. reverse array
reverse array
7. String array to number array
convert str to int
Type here to search
ENG
12:56
28-04-2021


Document
Document
127.0.0.1:5500/functions.html
127.0.0.1:5500 says
value is 10
OK
1.Prime numbers
find prime
2.Convert minutes to seconds
Minutes 5 convert 300
3.Points calculation
Wins: 3 Draw: 2 Loss: 1 check
4. check ten
value1: 10 value2: 0 result
5. convert string to int
str to int
6. reverse array
reverse array
7. String array to number array
convert str to int
Type here to search
ENG
12:56
28-04-2021


Document
Document
127.0.0.1:5500/functions.html
127.0.0.1:5500 says
100
OK
1.Prime numbers
find prime
2.Convert minutes to seconds
Minutes 5 convert 300
3.Points calculation
Wins: 3 Draw: 2 Loss: 1 check
4. check ten
value1: 10 value2: 0 result
5. convert string to int
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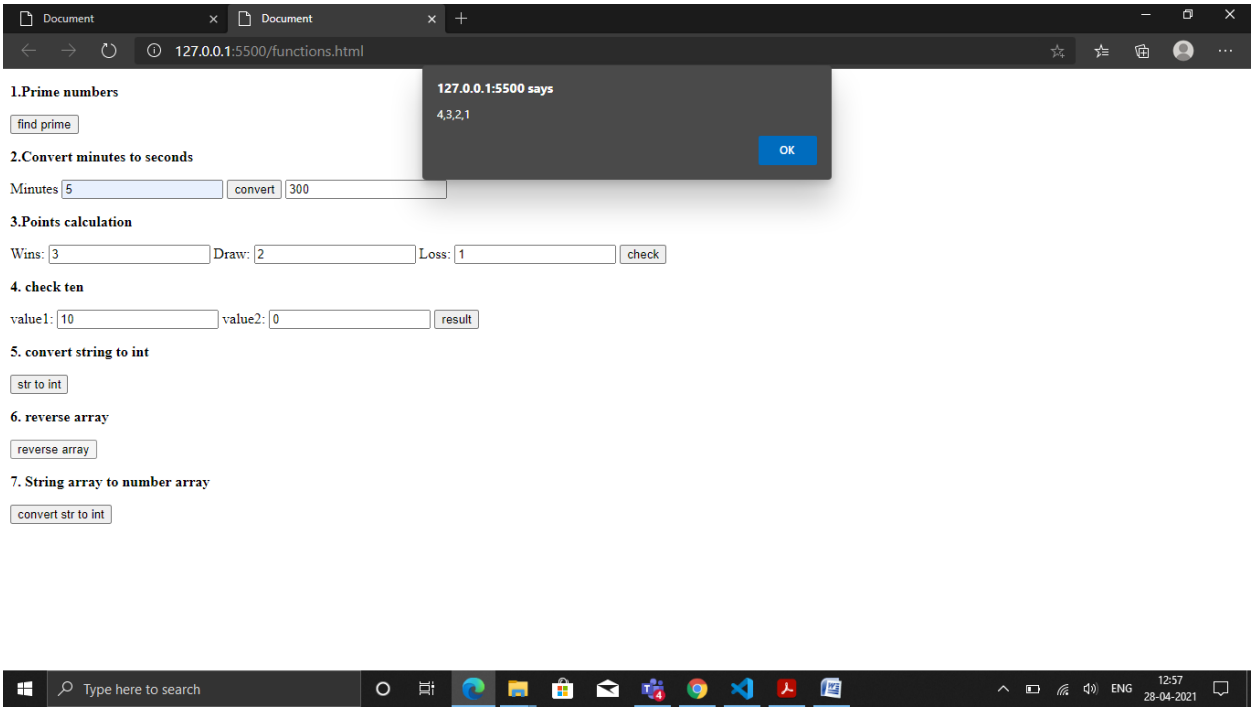
Document
Document
127.0.0.1:5500/functions.html
127.0.0.1:5500 says
4,3,2,1
OK
1.Prime numbers
find prime
2.Convert minutes to seconds
Minutes 5 convert 300
3.Points calculation
Wins: 3 Draw: 2 Loss: 1 check
4. check ten
value1: 10 value2: 0 result
5. convert string to int
str to int
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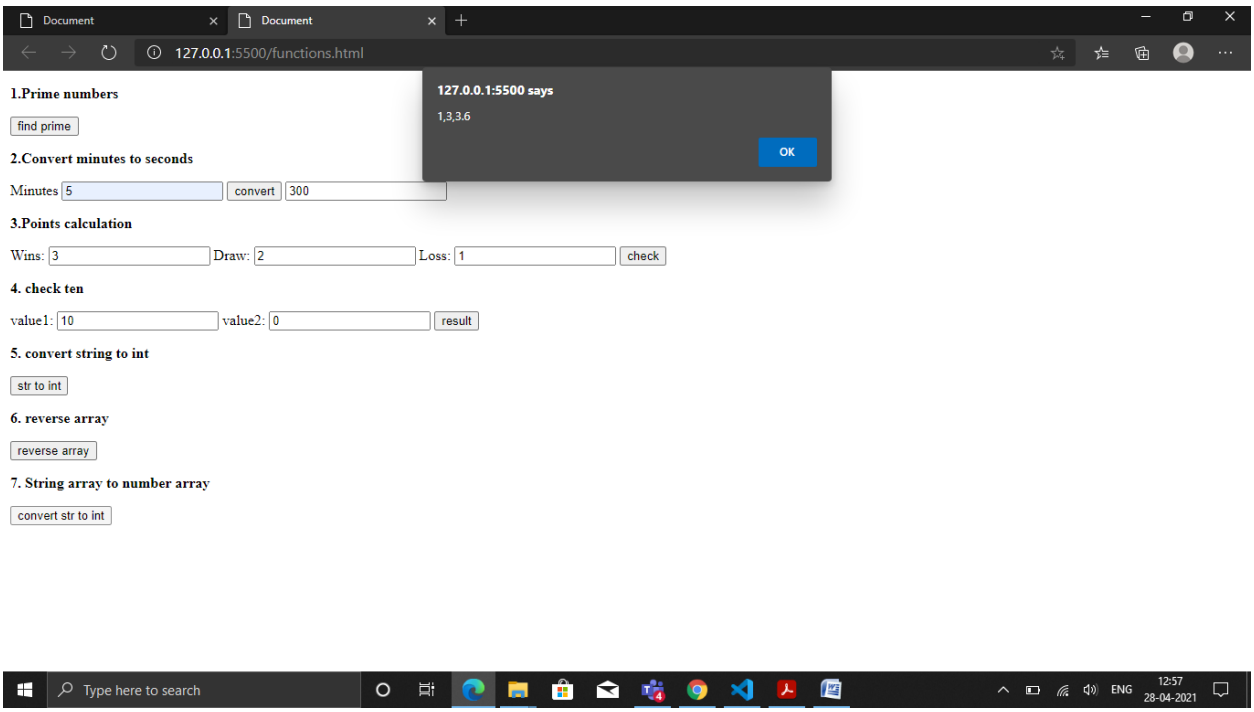
Document
Document
127.0.0.1:5500/functions.html
127.0.0.1:5500 says
1,3,3.6
OK
1.Prime numbers
find prime
2.Convert minutes to seconds
Minutes 5 convert 300
3.Points calculation
Wins: 3 Draw: 2 Loss: 1 check
4. check ten
value1: 10 value2: 0 result
5. convert string to int
str to int
6. reverse array
reverse array
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