JS array20_assignment.js M ✕ | js_array20_assignment_output.html

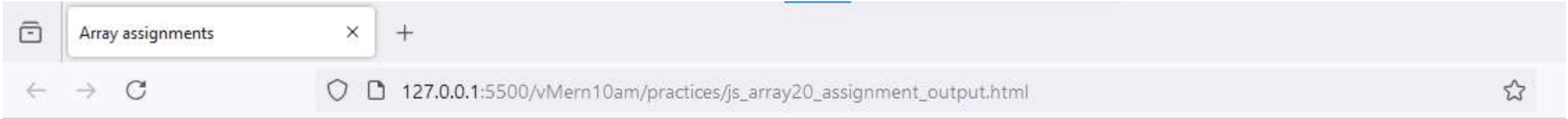
vMern10am > practices > JS array20_assignment.js > ...

```
35  // ================================================================================
36  // 1. WAP to implement an Array by reading input from user
37
38  var a=Array()
39  a=prompt("Enter array elemets using ',' seprator :")
40  document.write(`<h2>Array=[${a}]</h2>`)
41
42  // --------------------------------------------------------------------------------
```

JS array20_assignment.js M | js_array20_assignment_output.html ×

vMern10am > practices > js_array20_assignment_output.html > html

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Array assignments</title>
    <script src="./array20_assignment.js"></script>
</head>
<body>
    <hr><h1>Its Outputs:</h1>
</body>
</html>
```



Array=[1,2,3,4,5,6,7]

Its Outputs:

Array assignments

127.0.0.1:5500/vMern10am/practices/js_array20_assignment_output.html

127.0.0.1:5500

Enter array elemets using ',' seprator :

1,2,3,4,5,6,7

OK Cancel

Transferring data from 127.0.0.1...

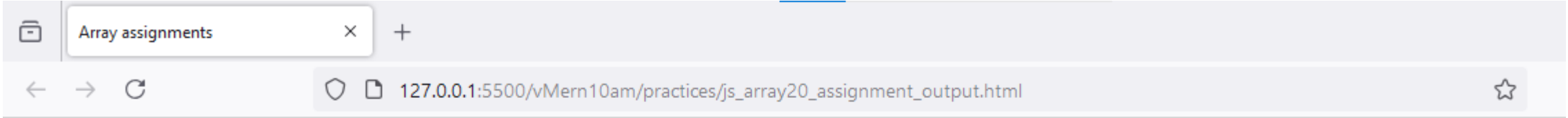
Type here to search

vivek 29°C Mostly clear ENG 23:05 26-09-2024

JS array20_assignment.js M ● | js_array20_assignment_output.html

vMern10am > practices > JS array20_assignment.js > ...

```
42  // ------------------------------------------------------------------------------
43  // 2. WAP to implement an Array by using random numbers
44  var a=Array()
45  for(let i=0;i<=20;i++){
46      b=parseInt(Math.random(a)*10+1)
47      a.push(b)
48  }
49
50  document.write(`<h2>Array By random=[${a}]</h2>`)
51  console.log(a)
52
53  // ------------------------------------------------------------------------------
```



Array By random=[4,2,4,1,6,3,1,4,2,9,10,3,6,7,7,6,3,1,8,1,8]

Its Outputs:

JS array20_assignment.js M ● | js_array20_assignment_output.html

vMern10am > practices > JS array20_assignment.js > ...

```
53  // ------------------------------------------------------------------------------
54  // 3. WAP to implement an Array by using febonacci Series Terms
55
56  var z=Array()
57  var n=prompt("Enter till number for  fibonacci-arrays :")
58
59  var a = 0
60  var b = 1
61  var sum = a + b
62
63  while (sum <= n) {
64      z.push(sum)
65      a = b
66      b = sum
67      sum = a + b
68    }
69
70  document.write(`<h2><hr>Arrays of Fibonacci Serise : [${z}]`)
71
72  // ------------------------------------------------------------------------------
```

Array assignments

127.0.0.1:5500/vMern10am/practices/js_array20_assignment_output.html

Arrays of Fibonacci Serise : [1,2,3,5,8,13]

Its Outputs:

127.0.0.1:5500

Enter till number for fibonacci-arrays :

20

OK Cancel

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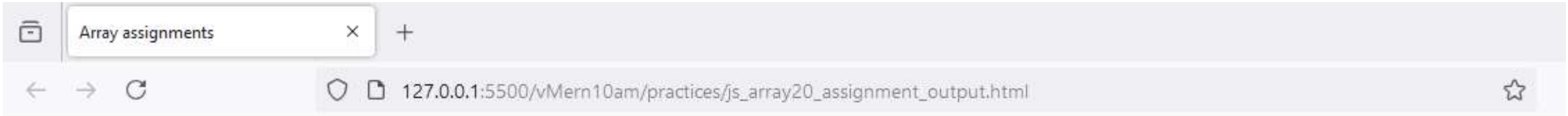


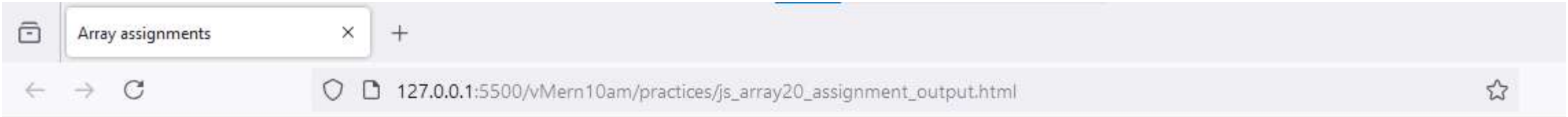
Arrays of Fibonacci Serise : [1,2,3,5,8,13]

Its Outputs:

JS array20_assignment.js M ● | js_array20_assignment_output.html

vMern10am > practices > JS array20_assignment.js > ...

```
72  // ------------------------------------------------------------------------------
73  // 4. WAP to Calculate sum of Elements of Array
74
75  var a=[1,2,3,4,5]
76  var sum=0
77  // for(let i in a){
78  //     sum=sum+a[i]
79  // }
80
81  // ------------or
82  for(let i of a){
83      sum=sum+i
84  }
85
86  document.write(`<h2>Sum of Array's : [${a}] elements => ${sum}</h2>`)
87
88  // // ------------or
89
90  // function fun(prev,current){
91  //     return prev+current
92  // }
93  // var z=a.reduce(fun)
94
95  // document.write(`<h2>Sum of Array's : [${a}] elements => ${z}</h2>`)
96
97  // ------------------------------------------------------------------------------
```



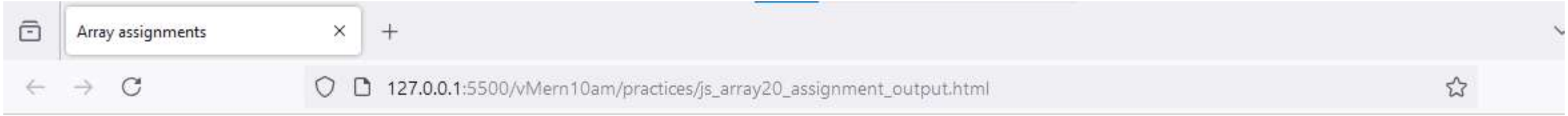
Sum of Array's : [1,2,3,4,5] elements => 15

Its Outputs:

JS array20_assignment.js M ● | js_array20_assignment_output.html

vMern10am > practices > JS array20_assignment.js > ...

```
97  // ------------------------------------------------------------------------------------
98  // 5. WAP to Calculate sum of Even and Odd Elements of Array also
99
100 var a =Array(1,2,3,4,5,6,7,8,9,10,12)
101 sumOfEven=0
102 sumOfOdd=0
103 for(let i of a){
104     if(i%2==0){
105         sumOfEven+=i
106     }
107     else{
108         sumOfOdd+=i
109     }
110 }
111 document.write(`<h2>array=[${a}] <hr><br>
112                 Sum of array's even value =>${sumOfEven} <br>
113                 Sum of array's odd value =>${sumOfOdd}
114             `)
115 // ------------------------------------------------------------------------------------
```



array=[1,2,3,4,5,6,7,8,9,10,12]

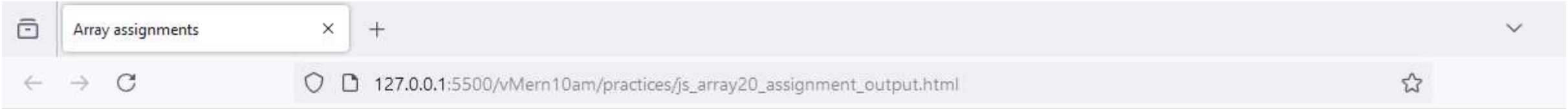
Sum of array's even value =>42
Sum of array's odd value =>25

Its Outputs:

JS array20_assignment.js M ● | js_array20_assignment_output.html

vMern10am > practices > JS array20_assignment.js > ...

```
115 // ------------------------------------------------------------------------
116 // 6. WAP to Calculate sum of Prime and not Prime Elements of Array
117 //    also calculate them
118
119 var a=[0,1,2,3,4,5,6,7,8,9,10]
120 var sumOfPrime=0
121 var sumOfNonPrime=0
122 for(n of a){
123     var flag = false
124     for (let i = 2; i <= n ** 0.5; i++) {
125         if (n % i == 0) {
126             flag = true
127             break
128         }
129     }
130     if (flag === false && n >= 2)
131         sumOfPrime+=n
132     else
133         sumOfNonPrime+=n
134 }
135 document.write(`<h2>
136                 Array=>[${a}] <br>
137                 Sum of array's Prime Number Values=> ${sumOfPrime} <br>
138                 Sum of array's Non-Prime Number Values=> ${sumOfNonPrime}
139                 </h2>
140             `)
```

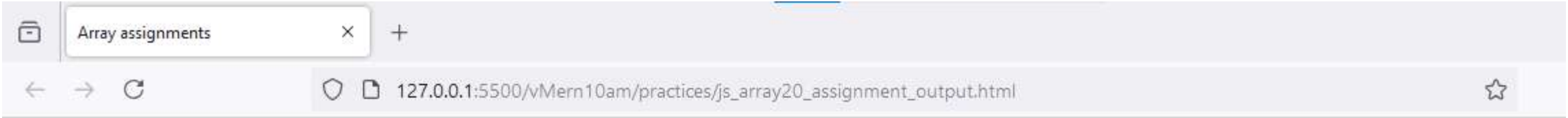


Its Outputs:

JS array20_assignment.js M ✕ | js_array20_assignment_output.html

vMern10am > practices > JS array20_assignment.js > mi

```
141
142  // ---------------------------------------------------------------------------
143  // 7. WAP to find smallest Element from Array
144
145  a=[200,3,4,5,6,7,8,9,10,100]
146  var min=0
147  let mi=Math.min(...a)
148  document.write(`<h2>Smallest element of Array's : [${a}] elements => ${mi}</h2>`)
149
150
151  // ---------------------------------------------------------------------------
```



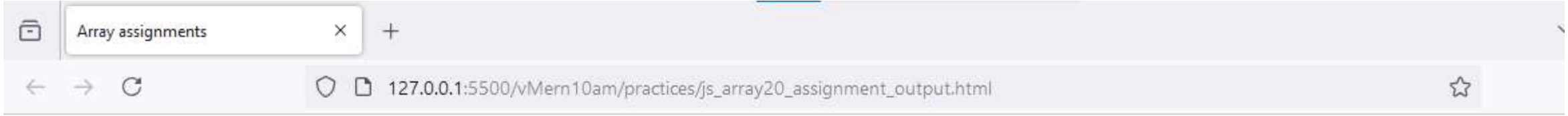
Smallest element of Array's : [200,3,4,5,6,7,8,9,10,100] elements => 3

Its Outputs:

JS array20_assignment.js M ✕ | js_array20_assignment_output.html

vMern10am > practices > JS array20_assignment.js > ...

```
150
151  // ------------------------------------------------------------------------------
152  // 8. WAP to find greatest Element from Array
153
154  a=[0,1,200,3,4,5,6,7,8,9,10,100]
155  var max=0
156  for(let i of a){
157      if(i>max){
158          max=i
159      }
160  }
161  document.write(`<h2>Greatest element of Array's : [${a}] elements => ${max}</h2>`)
162
163  // ----------------or
164
165  // a=[0,1,200,3,4,5,6,7,8,9,10,100]
166  // var max=0
167  // let ma=Math.max(...a)
168  // document.write(`<h2>Greatest element of Array's : [${a}] elements => ${ma}</h2>`)
169
170
171  // ------------------------------------------------------------------------------
```



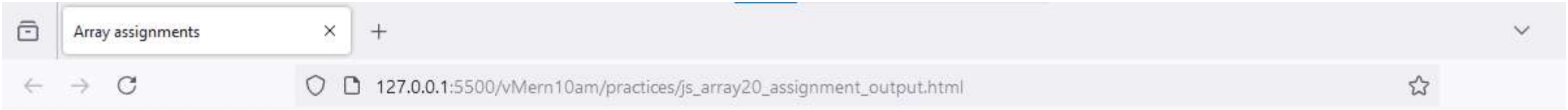
Greatest element of Array's : [0,1,200,3,4,5,6,7,8,9,10,100] elements => 200

Its Outputs:

JS array20_assignment.js M ● | js_array20_assignment_output.html

vMern10am > practices > JS array20_assignment.js > ...

```
171  // ------------------------------------------------------------------------------
172  // 9. WAP to calculate occurrence of -ve,+ve and 0 in Array
173
174  a=[1,200,3,4,-5,6,0,0,7,8,-9,10,0,100]
175  var negitive=0
176  var possitive=0
177  var zero=0
178  for(let i of a){
179      if(i<0)
180          negitive+=1
181      else if(i==0)
182          zero+=1
183      else if(i>0)
184          possitive+=1
185  }
186  document.write(`<h2>
187                      array= [${a}]<br>
188                      array have ${negitive} negative element <br>
189                      array have ${possitive} possitive element<br>
190                      array have ${zero} zero element
191
192                  </h2>
193                  `)
194
195
196  // ------------------------------------------------------------------------------
```



array= [1,200,3,4,-5,6,0,0,7,8,-9,10,0,100]
array have 2 negative element
array have 9 possitive element
array have 3 zero element

Its Outputs:

JS array20_assignment.js M ● | js_array20_assignment_output.html

vMern10am > practices > JS array20_assignment.js > ...

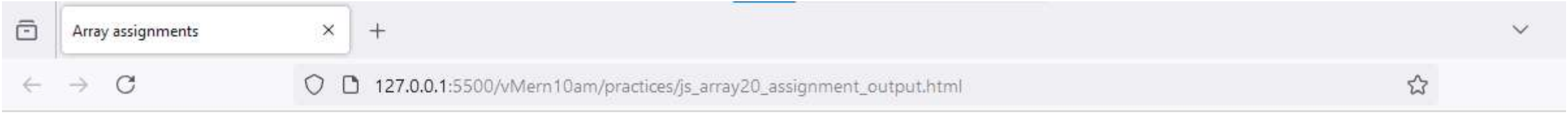
```
195  // ---------------------------------------------------------------------------
196  // 10. WAP to find first smallest,Second Smallest and third smallest
197  //     Element from Array
198
199  var a=[24,40,11,50,60,70,80,35,90]
200  var b=[24,40,11,50,60,70,80,35,90]
201
202  var Fsmall=Math.min(...a)
203  for(let i in a){
204      if(a[i]==Fsmall)
205          a.splice(i,1)
206  }
207
208  let Ssmall=Math.min(...a)
209  for(let j in a){
210      if(a[j]==Ssmall)
211          a.splice(j,1)
212  }
213  let Tsmall=Math.min(...a)
214  document.write(
215      `<h2>base array= [${b}] <br>
216          array's first smallest element ${Fsmall} <br>
217          array's Second smallest element ${Ssmall} <br>
218          array's Third smallest element ${Tsmall}
219      `
220  )
```

AWS | Ln 212, Col 2 | Spaces: 4 | UTF-8 | CRLF | {} JavaScript | Port

JS array20_assignment.js M ● | js_array20_assignment_output.html

vMern10am > practices > JS array20_assignment.js > ...

```
223 var a=[24,40,11,50,60,70,80,35,90]
224 var b=[24,40,11,50,60,70,80,35,90]
225 var Fsmall,Ssmall,Tsmall
226 for(let k=1;k<=3;k++){
227     var c=Math.min(...a)
228     if(k==1){
229         Fsmall=c
230     }
231     else if(k==2){
232         Ssmall=c
233     }
234     else if(k==3){
235         Tsmall=c
236     }
237     for(let m in a){
238         if(a[m]==c)
239             a.splice(m,1)
240     }
241 }
242 document.write(
243     `<h2>base array= [${b}] <br>
244         array's first small element ${Fsmall} <br>
245         array's Second small element ${Ssmall} <br>
246         array's Third small element ${Tsmall} <br>
247     `)
```



base array= [24,40,11,50,60,70,80,35,90]
array's first smallest element 11
array's Second smallest element 24
array's Third smallest element 35

Its Outputs:

JS array20_assignment.js M ✕ | js_array20_assignment_output.html

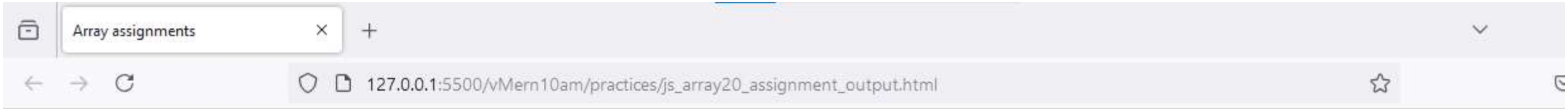
vMern10am > practices > JS array20_assignment.js > ...

```
249  // ------------------------------------------------------------------------------
250  // 11. WAP to find first greatest,Second greatest and third greatest
251  //     Element from Array
252
253  var a=[24,40,11,50,60,70,80,35,90]
254  var b=[24,40,11,50,60,70,80,35,90]
255  var Fgreatest=Math.max(...a)
256  for(let i in a){
257      if(a[i]==Fgreatest)
258          a.splice(i,1)
259  }
260
261  var Sgreatest=Math.max(...a)
262  for(let j in a){
263      if(a[j]==Sgreatest)
264          a.splice(j,1)
265  }
266  var Tgreatest=Math.max(...a)
267
268  document.write(`<h2>base array= [${b}] <br>
269                  array's first greatest element ${Fgreatest} <br>
270                  array's Second greatest element ${Sgreatest} <br>
271                  array's Third greatest element ${Tgreatest} <br>
272                 `)
273
274  // ------------------------------------or
```

JS array20_assignment.js M ✕ | js_array20_assignment_output.html

vMern10am > practices > JS array20_assignment.js > ...

```
274  // ----------------------------------------or
275  // var Fgreatest,Sgreatest,Tgreatest
276
277  // for(let k=1;k<=3;k++){
278  //     var c=Math.max(...a)
279  //     if(k==1){
280  //         Fgreatest=c
281  //     }
282  //     else if(k==2){
283  //         Sgreatest=c
284  //     }
285  //     else if(k==3){
286  //         Tgreatest=c
287  //     }
288  //     for(let m in a){
289  //         if(a[m]==c)
290  //             a.splice(m,1)
291  //     }
292  // }
293
294  // document.write(`<h2>base array= [${b}] <br>
295  //                 array's first greatest element ${Fgreatest} <br>
296  //                 array's Second greatest element ${Sgreatest} <br>
297  //                 array's Third greatest element ${Tgreatest} <br>
298  //                 // `)
299
```



base array= [24,40,11,50,60,70,80,35,90]
array's first greatest element 90
array's Second greatest element 80
array's Third greatest element 70

Its Outputs:

JS array20_assignment.js M ✕ | js_array20_assignment_output.html

vMern10am > practices > JS array20_assignment.js > ...

```
300 // ----------------------------------------------------------------------------
301 // 12. WAP find nth smallest Elements from Array
302
303 var a=[9,4,8,5,71,3,10]
304 var l=a.length  //after splice() array's length are being chinge
305 document.write(`<h2>base array= [${a}] <hr> Arrays nth smallest elements:</h2><br>`)
306 for(let i=1;i<=l;i++){
307     for(let m in a){
308         var c=Math.min(...a)
309         if(a[m]==c){
310             document.write(`<h2>${c}</h2>`)
311             a.splice(m,1)
312         }
313     }
314 }
315 document.write(a)
316 // ----------------------------------------------------------------------------
```

base array= [9,4,8,5,71,3,10]

Arrays nth smallest elements:

3

4

5

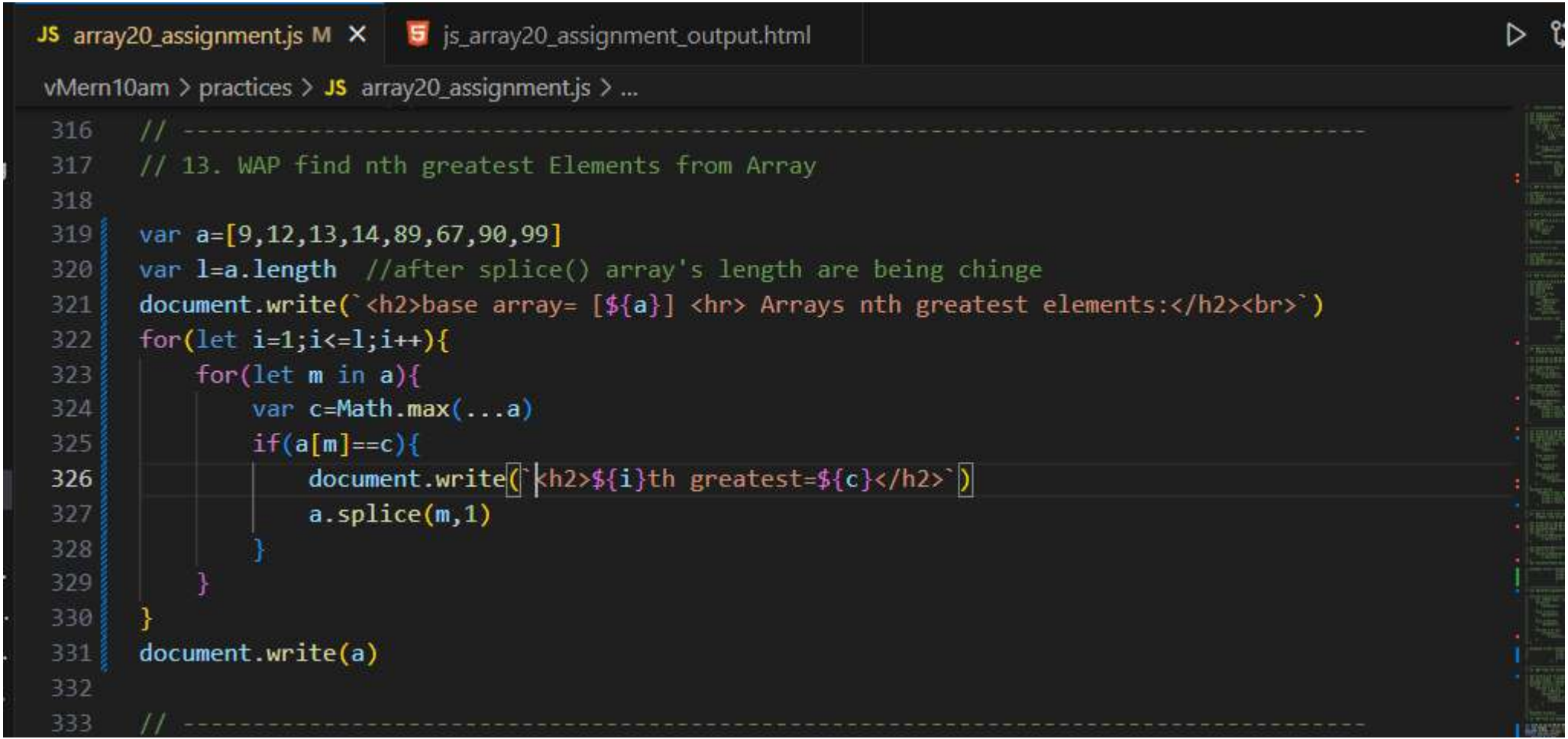
8

9

10

71

Its Outputs:


JS array20_assignment.js M
js_array20_assignment_output.html
vMern10am > practices > JS array20_assignment.js > ...
316 // ----------
317 // 13. WAP find nth greatest Elements from Array
318
319 var a=[9,12,13,14,89,67,90,99]
320 var l=a.length //after splice() array's length are being chinge
321 document.write(`<h2>base array= [${a}] <hr> Arrays nth greatest elements:</h2><br>`)
322 for(let i=1;i<=l;i++){
323 for(let m in a){
324 var c=Math.max(...a)
325 if(a[m]==c){
326 document.write(`<h2>${i}th greatest=${c}</h2>`)
327 a.splice(m,1)
328 }
329 }
330 }
331 document.write(a)
332
333 // ----------

base array= [9,12,13,14,89,67,90,99]

Arrays nth greatest elements:

1th greatest=99

2th greatest=90

3th greatest=89

4th greatest=67

5th greatest=14

6th greatest=13

7th greatest=12

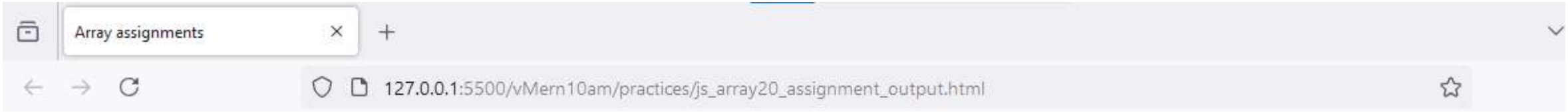
8th greatest=9

Its Outputs:

JS array20_assignment.js M × js_array20_assignment_output.html

vMern10am > practices > JS array20_assignment.js

```
332
333   // ------------------------------------------------------------------------
334   // 14. WAP reverse an Array
335   
336   a=[1,2,3,4,5]
337   b=a.reverse()
338   document.write(`<h2>Array [${a}]<br>reversed array=[${b}]</h2>`)
339
340   // ------------------------------------------------------------------------
```



Array [5,4,3,2,1]
reversed array=[5,4,3,2,1]

Its Outputs: